ABBREVIATIONS

AB	ANCHOR BOLT
ACI	AMERICAN CONCRETE INSTITUTE
ADDL	ADDITIONAL
ADJ	ADJACENT
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL
AGGR	AGGREGATE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ALT	ALTERNATE
ALUM	ALUMINUM
ANCH	ANCHOR
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APA	AMERICAN PLYWOOD ASSOCIATION
APPVD	APPROVED
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL; ARCHITECT
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
AWPA	AMERICAN WOOD PRESERVERS ASSOCIATION
AWS	AMERICAN WELDING SOCIETY
AITC	AMERICAN INSTITUTE OF TIMBER CONSTRUCTION
&	AND
@	AT
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BM	BEAM
BN	BOUNDARY NAIL
BNDRY	BOUNDARY
BOT or B	BOTTOM
BRC	BRACE
BRG	BEARING
BTWN	BETWEEN
CANT	CANTILEVER
CC	CENTER TO GRAVITY
CG	CENTER OF GRAVITY
CIP	CAST-IN-PLACE
CJ	CONSTRUCTION JOINT; CONTROL JOINT
CL	CENTER LINE
CLR	CLEARANCE; CLEAR
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
COMP	COMPRESSION
CONC	CONCRETE
CONN	CONNECTION; CONNECT
CONSTR	CONSTRUCTION
CJP - CP	COMPLETE JOINT PENETRATION WELD
CTSK	COUNTERSINK; COUNTERSUNK
CU FT	CUBIC FOOT
d	PENNY (NAIL OR BAR DIA)
DBL	DOUBLE
DEPT	DEPARTMENT
DET	DETAIL
DF	DOUGLAS FIR/LARCH
DIA or Ø	DIAMETER
DIAG	DIAGONAL
DIAPH	DIAPHRAGM
DIM	DIMENSION
DN	DOWN
DWG	DRAWING
DWL	DOWEL
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL or ELEV	ELEVATION i.e. EL 100'-0" i.e. PER ELEV
ELEC	ELECTRICAL
EMBED	EMBEDMENT
EN	EDGE NAIL
ENGR	ENGINEER
EQ	EQUAL; EQUIVALENT
EQUIP	EQUIPMENT
ETC	ET CETERA
EW	EACH WAY
EXIST or (E)	EXISTING
EXT	EXTERIOR
FDN	FOUNDATION
FF	FINISHED FLOOR
FIN	FINISH
FJ	FLOOR JOIST
FL	FLOOR LINE
FLG	FLANGE
FLR	FLOOR
FN	FIELD NAIL
FOC	FACE OF CONCRETE
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FOW	FACE OF WALL
FP	FULL PENETRATION; FIRE PROOFING
FRMG	FRAMING
FT	FOOT; FEET
FTG	FOOTING
GA	GAUGE
GALV	GALVANIZED
GB	GRADE BEAM
GLB	GLUE LAMINATED BEAM
GR	GRADE
GRND	GROUND
HORIZ	HORIZONTAL
HDF	HEADER
HGR	HANGER
HOSP	HOSPITAL
HP	HIGH POINT
HS	HIGH STRENGTH
HSH	HORIZONTALLY SLOTTED HOLES
HT	HEIGHT
ID	INSIDE DIAMETER
I-JST	I-JOIST
IN	INCH
INCL	INCLUDE
INFO	INFORMATION
INSP	INSPECTION
INT	INTERIOR
JST	JOITS
JT	JOINT
K	KIPS
KSI	KIPS PER SQUARE INCH
LAB	LABORATORY
LB(S) or #	POUND(S)
LF	LINEAR FOOT
LIN	LINEAL; LINEAR
LLBB	LONG LEGS BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LP	LOW POINT
LS	LATERAL SYSTEM (ELEMENT)
LT WT	LIGHTWEIGHT
LVL	LEVEL
MATL	MATERIAL
MAX	MAXIMUM
MB	MACHINE BOLT
MC	MISCELLANEOUS CHANNEL SHAPE
MF	MOMENT FRAME (ELEMENT)
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM; MINUTE
MISC	MISCELLANEOUS
(N)	NEW
NIC	NOT IN CONTRACT
NORM	NORMAL
NO or #	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSB	ORIENTED STRAND BOARD
PARA OR /	PARALLEL
PC	PRECAST; PIECE
PERP	PERPENDICULAR
PI	PLWOOD INDEX
₱	PLATE
PL	PROPERTY LINE
PLF	POUNDS PER LINEAL FOOT
PLCS	PLACES
PLY	PLYWOOD
PT	POST TENSIONED
PJP - PP	PARTIAL JOINT PENETRATION WELD
PREFAB	PREFABRICATED
PSF	POUNDS PER SQUARE FOOT
PSI	PUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
#	POUND; NUMBER
RBS	REDUCED BEAM SECTION
REF	REFERENCE
REINF	REINFORCE; REINFORCING
REQD	REQUIRED
RF	ROOF
SCHED	SCHEDULE
SECT	SECTION
SEP	SEPARATION
SHT	SHEET
SHTG	SHEATING
SIM	SIMILAR
SLBB	SHORT LEGS BACK-TO-BACK
SOG	SLAB ON GRADE
SN	SHEAR NAIL
SPCG	SPACING
SPECS	SPECIFICATIONS
SPCL	SPECIAL
SQ	SQUARE
SS	SELECT STRUCTURAL
SSC	SPECIAL SEISMIC CERTIFICATION
STAGG	STAGGERED
STD	STANDARD
STIFF	STIFFENERS
STL	STEEL
STRUCT	STRUCTURAL
STRUCT I	STRUCTURAL I
SW	SHEAR WALL
SYM	SYMMETRICAL
TB	TIE BEAM
TEMP	TEMPERATURE; TEMPORARY
THK	THICKNESS/THICK
THRU	THROUGH
T.O.	TOP OF
TOC	TOP ON CONCRETE
TOF	TOP OF FOOTING
TOS	TOP OF STEEL
TOW	TOP OF WALL
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TSG	TAPERED STEEL GRIDER
TYP	TYPICAL
UBC	UNIFORM BUILDING CODE
UNO	UNLESS NOTED OTHERWISE
UT	ULTRA-SONIC TEST
VERT	VERTICAL
W/	WITH
W/O	WITHOUT
WD	WOOD
WP	WORK POINT; WATERPROOF
WT	WEIGHT; STRUCTURAL TEE SHAPE
WWF	WELDED WIRE FABRIC

STRUCTURAL STEEL SHAPES

WF	W SHAPE
C	AMERICAN STD CHANNEL SHAPE
MC	MISC CHANNEL SHAPE
L	ANGLE SHAPE
WT, ST, MT	STRUCTURAL TEE SHAPE
PIPE	STANDARD PIPE SHAPE
PIPE - X	EXTRA STRONG PIPE SHAPE
PIPE - XX	DBL EXTRA STRONG PIIPE SHAPE
HSS	STRUCT TUBING SHAPE

SYMBOLS

	SECTION REFERENCE BUBBLE
	DETAIL REFERENCE BUBBLE WITH ARROW
	DETAIL REFERENCE BUBBLE
	FULL HEIGHT SECTION INDICATOR
	BUILDING SECTION INDICATOR
	ELEVATION OF WALL OR FRAME
N	NORTH ARROW
	SLOPE
	EARTH LAYER
	STEPPED SURFACE; FLOOR DEPRESSION
	SLOPED SURFACE
	INDICATES SAND OR GROUT
	INDICATES GRAVEL
	TOP OF SLAB ELEVATION
—X—X—X—X—X—	WELDED WIRE FABRIC (WWF LAYER)
X	FOOTING TYPE
	INDICATES MASONRY WALLS
	STEEL TUBE COLUMN
	STEEL PIPE COLUMN
	WIDE FLANGE STEEL COLUMN
	MEMBER SPLICE
(+3")	TOP OF STEEL + ELEVATION
[X]	NUMBER OF EVENLY SPACED SHEAR STUDS
[X -Y-Z]	SPECIAL STUD SPACING SEE TYPICAL STEEL DETAILS
<3/4>	BEAM CAMBER AT MID-SPAN
	STEEL IN CROSS SECTION
	DIRECTION OF SPAN
	BEAM LATERAL BRACE (SINGLE ANGLE)
(2L)	BEAM LATERAL BRACE (DOUBLE ANGLE)
	DRAG STRUT CONNECTION
	DRAG STRUT CONNECTION
	DRAG STRUT CONNECTION
	DRAG STRUT CONNECTION
	BOTTOM FLANGE SUPPORT CONNECTION
	FULL HEIGHT STIFFENER CONNECTION
	GRAVITY MOMENT CONNECTION
	REDUCED BEAM SECTION (RBS) MOMENT CONNECTION

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

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Drawing Title: **ABBREVIATIONS, SYMBOLS, AND SHEET INDEX**
Approved: Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A
Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049
Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032
Building Number: 1001
Drawing Number: **S1**
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

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STRUCTURAL NOTES

GENERAL

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS PRIOR TO STARTING CONSTRUCTION. THE ARCHITECT SHALL BE NOTIFIED OF ANY DISCREPANCIES OR INCONSISTENCIES.

2. ALL DRAWINGS ARE CONSIDERED TO BE A PART OF THE CONTRACT DOCUMENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REVIEW AND COORDINATION OF ALL DRAWINGS AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES THAT OCCUR SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ARCHITECT.

3. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER GENERAL NOTES AND TYPICAL DETAILS. WHERE NO DETAILS ARE GIVEN, CONSTRUCTION SHALL BE AS SHOWN FOR SIMILAR WORK.

4. ALL WORK SHALL CONFORM TO THE MINIMUM STANDARDS OF THE FOLLOWING CODES:

   2012 INTERNATIONAL BUILDING CODE REFERRED TO HERE AS "THE CODE", AND ANY OTHER
   REGULATING AGENCIES WHICH HAVE AUTHORITY OVER ANY PORTION OF THE WORK, INCLUDING
   THE DEPARTMENT OF VETERAN AFFAIRS STANDARD DVA H-18-8.

5. SEE ARCHITECTURAL DRAWINGS FOR THE FOLLOWING:

   SIZE AND LOCATION OF ALL DOOR AND WINDOW OPENINGS, EXCEPT AS NOTED.

   SIZE AND LOCATION OF ALL INTERIOR AND EXTERIOR NON-BEARING PARTITIONS.

   SIZE AND LOCATION OF ALL CONCRETE CURBS, EQUIPMENT PADS, PITS, FLOOR DRAINS, SLOPES, DEPRESSED AREAS, CHANGE IN LEVEL, CHAMFERS, GROOVES, INSERTS, ETC.

   SIZE AND LOCATION OF ALL FLOOR AND ROOF OPENINGS EXCEPT AS SHOWN.

   FLOOR AND ROOF FINISHES.

   DIMENSIONS NOT SHOWN ON STRUCTURAL DRAWINGS.

6. SEE MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR THE FOLLOWING:

   PIPE RUNS, SLEEVES, HANGERS, TRENCHES, WALL AND SLAB OPENINGS, ETC., EXCEPT AS SHOWN OR NOTED.

   ELECTRICAL CONDUIT RUNS, BOXES, OUTLETS IN WALLS AND SLABS.

   CONCRETE INSERTS FOR ELECTRICAL, MECHANICAL OR PLUMBING FIXTURES.

   SIZE AND LOCATION OF MACHINE OR EQUIPMENT AND EQUIPMENT PADS

7. THE CONTRACT STRUCTURAL DRAWINGS AND SPECIFICATIONS REPRESENT THE FINISHED STRUCTURE. THEY DO NOT INDICATE THE METHOD OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE ALL MEASURES NECESSARY TO PROTECT THE STRUCTURE DURING CONSTRUCTION. SUCH MEASURES SHALL INCLUDE, BUT NOT BE LIMITED TO, BRACING, SHORING FOR LOADS DUE TO CONSTRUCTION EQUIPMENT, ETC. OBSERVATION VISITS TO THE SITE BY THE STRUCTURAL ENGINEER SHALL NOT INCLUDE INSPECTION OF THE ABOVE ITEMS.

8. OPENINGS, POCKETS, ETC., LARGER THAN 6" SHALL NOT BE PLACED IN CONCRETE SLABS, DECKS, WALLS, UNLESS SPECIALLY DETAILED ON THE STRUCTURAL DRAWINGS. NOTIFY THE STRUCTURAL ENGINEER WHEN DRAWINGS BY OTHERS SHOW OPENINGS, POCKETS, ETC., LARGER THAN 6" NOT SHOWN ON THE STRUCTURAL DRAWINGS, BUT WHICH ARE LOCATED IN STRUCTURAL MEMBERS. FOR ANY FURTHER RESTRICTIONS ON OPENINGS IN STRUCTURAL ELEMENTS, SEE APPLICABLE SECTIONS BELOW.

9. OPENINGS, POCKETS, ETC., SMALLER THAN 6" MAY BE PLACED IN EXISTING CONCRETE SLABS, DECKS, WALLS, PROVIDED NO EXISTING REINFORCEMENTS ARE CUT. MULTIPLE OPENINGS SHALL NOT BE PLACED CLOSER THAN 36" O.C. USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING REINFORCING BARS. DO NOT CUT EXISTING REINFORCING BARS WHICH MAY CONFLICT WITH OPENING LOCATION UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

10. CONDUITS LARGER THAN 1-1/2" DIAMETER SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED. NO CONDUITS SHALL BE PLACED IN CONCRETE FILL OVER METAL DECKING AND NO PIPES SHALL BE EMBEDDED IN CONCRETE.

11. ASTM SPECIFICATIONS ON THE DRAWINGS SHALL BE OF THE LATEST REVISION.

12. CONTRACTOR SHALL INVESTIGATE SITE DURING CLEARING AND EARTHWORK OPERATIONS FOR FILLED EXCAVATIONS OR BURIED STRUCTURES, SUCH AS CESSPOOLS, CISTERNS, FOUNDATIONS, ETC. IF ANY SUCH STRUCTURES ARE FOUND, STRUCTURAL ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

13. CONSTRUCTION MATERIAL SHALL BE SPREAD OUT IF PLACED ON FRAMED ROOF OR FLOOR. LOAD SHALL NOT EXCEED THE DESIGN LIVE LOAD PER SQUARE FOOT. PROVIDE ADEQUATE SHORING AND/OR BRACING WHERE STRUCTURE HAS NOT ATTAINED DESIGN STRENGTH.

14. THE CONTRACTOR SHALL VERIFY THE EXTENT AND LOCATIONS OF SITE UTILITIES PRIOR TO EXCAVATION OR SHORING. SINCE THE SURVEY WAS BASED PRIMARILY ON PUBLIC RECORDS, THERE MAY BE DISCREPANCIES BETWEEN THE LOCATION INDICATED ON THE SITE SURVEY AND ACTUAL VERIFIED LOCATIONS. IF THE ACTUAL FIELD VERIFIED LOCATION OF UTILITIES COULD RESULT IN A CONFLICT WITH THE SHORING, THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY.

15. HEAVY EQUIPMENT, CRANES AND MATERIAL STOCKPILES SHALL NOT BE LOCATED ON OR ADJACENT TO SHORING UNLESS APPROVED BY THE STRUCTURAL ENGINEER.

16. CONTRACTOR SHALL COORDINATE SHORING WITH DRAWINGS OF RECORD TO INSURE PROVISIONS FOR POCKETS, BLOCKOUTS, OFFSETS, STEPPED FOOTINGS AND ANY OTHER ITEMS AFFECTED BY THE SHORING.

17. AN UNDERGROUND SERVICE ALERT INQUIRY IDENTIFICATION NUMBER MUST BE OBTAINED AT LEAST TWO WORKING DAYS BEFORE STARTING WORK WITH THIS PERMIT. TELEPHONE NO. 1-800-422-4133.

18. STOCK PILING OR STORAGE OF MATERIAL ON OR NEAR SHORING BULKHEAD IS NOT PERMITTED.

19. SEE ARCHITECTURAL DRAWINGS FOR MISCELLANEOUS DRAINAGE AND WATERPROOFING.

20. DESIGN LOADS:

   MEP UNIT WEIGHT:

RTU-1:	1350 Lbs
CU-1:	550 Lbs

   LIVE LOADS:

EXISTING FLOOR	60 PSF + 25 PSF (PARTITION)
ROOF	20 PSF

21. WIND ANALYSIS PER SECTION 1609 OF THE 2012 IBC
   BASIC WIND SPEED (3 SECOND GUST) V_{ULT}= 110 MPH, EXPOSURE B, RISK CATEGORY II

22. SEISMIC ANALYSIS PER SECTION 1613 OF THE 2012 IBC AND H-18-8 VA SEISMIC DESIGN REQUIREMENTS
   RISK CATEGORY II
   SITE CLASS D
   S_S = 2.239, S_1 = 0.822
   S_{DS}= 1.493 S_{D1}= 0.822
   I = 1.0
   I_P = 1.0
   SEISMIC DESIGN CATEGORY D

SPECIAL INSPECTIONS

THE FOLLOWING ELEMENTS OF CONSTRUCTION SHALL HAVE CONTINUOUS INSPECTION BY A BUILDING INSPECTOR APPROVED BY CITY OF LOS ANGELES.

1. CONCRETE.
2. BOLTS INSTALLED IN CONCRETE.
3. PLACING OF REINFORCING STEEL.
4. ALL STRUCTURAL WELDING, INCLUDING REINFORCING STEEL.
5. HIGH STRENGTH BOLTING.
6. EXPANSION ANCHOR.

CONCRETE

1. ALL CONCRETE CONSTRUCTION SHALL CONFORM WITH CHAPTER 19 OF THE CODE AND WITH THE PROVISIONS OF ACI 318-11

2. REINFORCED CONCRETE IS DESIGNED BY THE "ULTIMATE STRENGTH DESIGN METHOD".

3. CONCRETE MIXES SHALL BE DESIGNED BY THE APPROVED TESTING LABORATORY AND APPROVED BY THE STRUCTURAL ENGINEER. THE COMPRESSIVE STRENGTH OF THE CONCRETE SHALL BE PROPORTIONED BASED ON SECTION 1905 OF THE CODE.

4. SCHEDULE OF STRUCTURAL CONCRETE 28-DAY STRENGTH AND TYPES:

LOCATION IN STRUCTURE	STRENGTH (PSI)	DENSITY (PCF)	REMARKS
ALL CONC (NWT)	3000	150	-

5. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150, TYPE II.

6. AGGREGATE FOR HARDROCK CONCRETE SHALL CONFORM TO ALL REQUIREMENTS AND TESTS OF ASTM C-33 AND PROJECT SPECIFICATIONS. EXCEPTIONS MAY BE USED ONLY WITH PERMISSION OF THE STRUCTURAL ENGINEER.

7. CONCRETE MIXING OPERATION, ETC. SHALL CONFORM TO ASTM C-94.

8. PLACEMENT OF CONCRETE SHALL CONFORM TO CODE SECTION 1905 AND PROJECT SPECIFICATIONS. CLEAN AND ROUGHEN TO 1/4" AMPLITUDE ALL CONCRETE SURFACES AGAINST WHICH NEW CONCRETE IS TO BE PLACED.

9. ALL REINFORCING BARS, ANCHOR BOLTS AND OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.

10. PROVIDE SLEEVES FOR PLUMBING AND ELECTRICAL OPENINGS IN CONCRETE BEFORE PLACING. DO NOT CUT ANY REINFORCING WHICH MAY CONFLICT. CORING IN CONCRETE IS NOT PERMITTED. NOTIFY THE STRUCTURAL ENGINEER IN ADVANCE OF CONDITIONS NOT SHOWN ON THE DRAWINGS. SEE THESE DRAWINGS FOR ADDITIONAL RESTRICTIONS ON THE PLACEMENT OF OPENINGS IN SLABS AND WALLS.

11. CONDUITS AND PIPE SLEEVES SHALL NOT DISPLACE OR INTERRUPT REINFORCING BARS, SPACE EMBEDDED CONDUITS AND SLEEVES AT A MINIMUM CLEAR SPACING OF 3 DIAMETERS.

REINFORCING STEEL (FOR CONCRETE)

1. REINFORCING BARS SHALL CONFORM TO THE REQUIREMENTS OF CHAPTER 19 OF THE CODE, ASTM A706, GRADE 60 UNO.
   DEFORMATIONS SHALL BE IN ACCORDANCE WITH ASTM A-305.

2. BARS SHALL BE CLEAN OF RUST, GREASE, OR OTHER MATERIALS LIKELY TO IMPAIR BOND. ALL REINFORCING BAR BENDS SHALL BE MADE COLD.

3. WELDED WIRE FABRIC SHALL CONFORM TO ASTM A-185. PROVIDE LAPS AS PER THE CODE, 9" MINIMUM. WWF SHALL BE SUPPORTED ON APPROVED CHAIRS.

4. REINFORCING BAR SPLICES SHALL BE MADE AS INDICATED ON THE DRAWINGS. MINIMUM SPLICE LENGTH FOR REINFORCING STEEL BARS IN CONCRETE SHALL BE AS PER THE CODE. LAP ALL HORIZONTAL BARS AT CORNERS AND INTERSECTIONS. STAGGER ALL SPLICES UNLESS NOTED OTHERWISE ON PLANS.

5. ALL BARS SHALL BE MARKED SO THEIR IDENTIFICATION CAN BE MADE WHEN THE FINAL IN-PLACE INSPECTION IS MADE.

6. WHERE WELDING OF REINFORCING IS APPROVED BY THE STRUCTURAL ENGINEER, IT SHALL BE DONE BY AWS CERTIFIED WELDERS USING E90XX OR APPROVED ELECTRODES. WELDING PROCEDURES SHALL CONFORM TO THE REQUIREMENTS OF STRUCTURAL WELDING CODE- REINFORCING STEEL", AWS-D1.4, LATEST REVISION. REINFORCING BARS TO BE WELDED SHALL CONFORM TO THE REQUIREMENTS OF ASTM A-706.

7. BARS IN SLABS SHALL BE SECURELY SUPPORTED ON WELL-CURED CONCRETE BLOCKS OR APPROVED METAL CHAIRS, PRIOR TO PLACING CONCRETE.

8. REINFORCING STEEL SHALL BE DETAILED IN ACCORDANCE WITH THE "A.C.I. MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", LATEST EDITION.

9. COMPLETE AND DETAILED REINFORCING PLACEMENT DRAWINGS SHALL BE PREPARED AND SUBMITTED TO THE ARCHITECT FOR REVIEW BY THE STRUCTURAL ENGINEER PRIOR TO FABRICATION IN ACCORDANCE WITH THE SPECIFICATIONS AND APPLICABLE CODES. THESE DRAWINGS SHALL BE AVAILABLE ON THE JOB SITE PRIOR TO PLACING OF CONCRETE.

10. MILL TEST REPORTS FOR GRADE 60 BARS SHALL BE SUBMITTED PRIOR TO PLACEMENT OF CONCRETE.

11. CONTINUOUS INSPECTION OF CONCRETE SHALL INCLUDE INSPECTION DURING INSTALLATION OF REINFORCING STEEL. INSPECTION SHALL BE SCHEDULED SO THAT PLACEMENT OF REINFORCING STEEL, CONDUIT, SLEEVES, AND EMBEDDED ITEMS MAY BE CORRECTED PRIOR TO PLACEMENT OF OVERLYING GRIDS OR REINFORCING STEEL.

12. CONCRETE PROTECTION FOR REINFORCEMENT

CAST-IN-PLACE CONCRETE (NON-PRESTRESSED). THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT:

		MINIMUM COVER, IN.
A.	CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3
B.	CONCRETE EXPOSED TO EARTH OR WEATHER:	
	NO. 6 THROUGH NO. 11 BAR	2
	NO 5 BAR, W31 OR D31 WIRE & SMALLER	1-1/2
C.	CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:	
	SLABS, WALLS, JOISTS:	
	NO. 11 BAR & SMALLER	3/4
	BEAMS, COLUMNS:	
	PRIMARY REINFORCEMENT TIES, STIRRUPS, SPIRALS	1-1/2

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL BE DETAILED, FABRICATED AND ERECTED BY AN APPROVED AND LICENSED FABRICATOR IN ACCORDANCE WITH THE AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS (2010 EDITION), AND WITH CHAPTER 22 OF THE CODE.

2. ALL STRUCTURAL STEEL SHALL CONFORM TO THE ASTM DESIGNATION AS INDICATED BELOW (UNO):

WF SHAPES	A992 OR A572, GR50
PLATES (AS NOTED ON DRAWINGS)	A572, GR50
CONNECTION PLATES, AND MISC.	A-36 U.N.O.
HOLLOW STRUCTURAL SECTIONS	A-500, GRADE B
BOLTS	A325N UNO
BOLTS IN CONCRETE	F1554, GR 36 U.N.O.
ANGLES, CHANNELS, WT SHAPES	A-36

3. THE STRUCTURAL STEEL FABRICATOR SHALL FURNISH SHOP DRAWINGS TO THE ARCHITECT OF ALL STEEL FOR ARCHITECTS AND STRUCTURAL ENGINEERS REVIEW AND APPROVAL BEFORE FABRICATION.

4. BOLT HOLES USED IN STEEL SHALL BE 1/16" LARGER IN DIAMETER THAN NOMINAL SIZE OF BOLT USED, EXCEPT AS NOTED.

5. ALL STRUCTURAL STEEL SURFACES THAT ARE ENCASED IN CONCRETE, OR MASONRY, SPRAY ON FIREPROOFING, OR ARE ENCASED BY BUILDING FINISH, SHALL BE LEFT UNPAINTED.

6. ALL WELDING IS TO BE DONE BY CERTIFIED WELDERS USING E70XX ELECTRODES (UNO). ALL WELDS SHALL BE IN CONFORMITY WITH THE PROJECT SPECIFICATIONS AND THE CODE FOR WELDING IN BUILDING CONSTRUCTION (AWS D1.1 LATEST REVISION) OF THE AMERICAN WELDING SOCIETY. SEE SPECIAL INSPECTIONS SECTION FOR WELDING INSPECTION REQUIREMENTS.

7. WELD LENGTHS CALLED FOR ON PLANS ARE THE NET EFFECTIVE LENGTH REQUIRED. WHERE FILLET WELD SYMBOL IS GIVEN WITHOUT INDICATION OF SIZE, USE MINIMUM SIZE WELDS AS SPECIFIED IN AISC MANUAL OF STEEL CONSTRUCTION, SECTION J2.

8. ALL EXPOSED STRUCTURAL STEEL AND MISCELLANEOUS METAL SHALL BE HOT DIP GALVANIZED AFTER FABRICATION.

9. THE USE OF E70-T4 WELDING WIRE IS NOT ALLOWED FOR ANY APPLICATION.

10. ALL WELD FILLER MATERIAL SHALL HAVE A MINIMUM CHARPY V-NOTCH (CVN) VALUE OF 20 FT-LBS AT A TEMPERATURE OF O°F.

11. 100 PERCENT ULTRASONIC TESTING FOR ALL COMPLETE JOINT PENETRATION GROOVE WELDS IS REQUIRED.

STEEL DECK

1. ROOF AND FLOOR DECKS SHALL BE AS NOTED ON THE DRAWINGS. PROPERTIES ARE AS FOLLOWS:

DECK SIZE AND GAUGE	I(IN4)	+S(IN3)	-S(IN3)
1-1/2" x 18 GA DECK	0.302	0.322	0.335

2. DECK SHOP DRAWINGS SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND SHALL INDICATE STUD LAYOUT.

3. THE AMERICAN IRON AND STEEL INSTITUTE "SPECIFICATIONS FOR THE DESIGN OF LIGHT GAUGE STEEL STRUCTURAL MEMBERS" SHALL GOVERN THE DESIGN OF ALL DECK UNITS, STEEL DECK AND ALL OF ITS CLOSURES AND FLASHINGS SHALL CONFORM TO ASTM A653 SS, GRADE 33, Fy = 38,000 PSI MINIMUM.

4. ACCEPTABLE STEEL DECK MANUFACTURERS ARE AS FOLLOWS:

VERCO MANUFACTURING INC.	(ICC ESR-1735P)
ASC STEEL DECK	(ICC ESR-1414)

5. UNITS SHALL BE CONTINUOUS OVER THREE OR MORE SPANS, EXCEPT WHERE THE FRAMING DOES NOT PERMIT. SHORING MAY BE REQUIRED AT NON-CONTINUOUS SPANS. DECK SHOP DRAWINGS SHALL INDICATE WHERE SHORING WILL BE REQUIRED. DECK SHALL BEAR A 2" MINIMUM AT ALL SUPPORTS. ALL DECKS FOR INTERIOR FLOORS SHALL HAVE VENT TABS FOR CONCRETE VENTILATION.

6. ALL WELDING OF STEEL DECK SHALL BE DONE BY CERTIFIED LIGHT GAGE WELDERS IN ACCORDANCE WITH AWS "SPECIFICATIONS FOR WELDING SHEET STEEL IN STRUCTURES", AWS D1.3, LATEST EDITION.

7. UNITS SHALL BE FASTENED TO THE STEEL SUPPORTS AT THE END OF THE UNITS AND AT INTERMEDIATE SUPPORTS AND TO THE STEEL SUPPORTS AT THE SIDE BOUNDARIES BY 3/4" DIAMETER PUDDLE WELDS AT 1'-0" OC.

8. THE SIDE LAPS OF ADJACENT UNITS SHALL BE FASTENED BETWEEN SUPPORTS BY BUTTON PUNCHING.

9. PROVIDE FLASHING AND CLOSURE PLATES AT ENDS OF ALL UNITS, AROUND COLUMNS, AND AT ALL PERIMETER LOCATIONS REQUIRING CONCRETE.

10. ALLOWABLE LOADS FOR DECK PER VERCO CATALOG (ICC ESR-1735P).

POST-INSTALLED ANCHORS

STRENGTH DESIGN CAPACITIES (SEISMIC) FOR CARBON HILTI KWIK-BOLT TZ IN CONCRETE.
(TYPICAL INSTALLATIONS PER ICC REPORT ESR-1917)

CARBON		3000psi	4000psi	6000psi	ALL PSI	TORQUE TEST VALUE
DIA.	hef	TENS (lbs) 1,2,3,4,5,6 (Ø.Nn)	TENS (lbs) 1,2,3,4,5,6 (Ø.Nn)	TENS (lbs) 1,2,3,4,5,6 (Ø.Nn)	SHEAR 1,4,5,6 (Ø.Nn)	(FT-lb)
3/8	2	1,212	1,400	1,714	1,099	25
1/2	2	1,284	1,483	1,816	3,122	40
	3 1/4	2,625	3,031	3,712		
5/8	3 1/8	2,508	2,896	3,546	5,146	60
	4	3,631	4,193	5,136		
3/4	3 3/4	3,296	3,806	4,662	6,944	110
	4 3/4	4,699	5,426	6,646		

NOTES:

1. VALUES ARE FOR SINGLE ANCHORS WITH MINIMUM SPACING OF 3hef BETWEEN ADJACENT ANCHORS AND MINIMUM EDGE DISTANCE OF 1.5hef OR Ccr. (NO EDGE DISTANCE OR SPACING REDUCTION). FOR GROUPS OF ANCHORS AND/OR SPACING AND EDGE DISTANCES LESS THAN INDICATED REFER TO ICC-ESR1917.
2. TENSION VALUES ØNn ARE FOR NORMAL WEIGHT CONCRETE, FOR LIGHT-WEIGHT CONCRETE MULTIPLY VALUES BY 0.60.
3. Ø FACTORS FOR TENSION ARE THE REDUCTION FACTORS FOR CONDITION B WHERE SUPPLEMENTARY REINFORCEMENT IN CONFORMANCE WITH ACI 318-11 SECTION D.4.4 IS NOT PROVIDED OR WHERE PULLOUT OR PRYOUT STRENGTH GOVERNS. DIA. TENSION= 0.65.
4. Ø FACTOR FOR SHEAR ARE THE REDUCTION FACTORS FOR STEEL FAILURE MODES OF A DUCTILE STEEL ELEMENT AS DEFINED BY ACI 318 SECTION D.1. Ø SHEAR= 0.70.
5. THE VALUES LISTED ARE FOR USE WITH THE LOAD COMBINATIONS OF 2012 IBC.
6. ALL VALUES LISTED FOR CRACKED CONRETE USING Kcr AS LISTED IN TABLES 3 & 4 OF ICC ESR 1917
7. TABLE APPLIES TO KWIK BOLT TZ ANCHORS INSTALLED IN CONCRETE SLAB, WALLS, BEAMS.
8. VALUES LISTED ARE FOR ANCHORS SUBJECT TO SEISMIC LOADS. FOR ANCHORS SUBJECT TO STATIC LOADS ONLY, SEE ICC ESR-1917.
9. ANCHOR MAY BE TESTED TO THE FOLLOWING:

   THE TORQUE TEST VALUE LISTED IN TABLE ABOVE BY USE OF A CALIBRATED TORQUE WRENCH.
10. WHEN INSTALLING TZ ANCHORS, USE CARE AND CAUTION TO AVOID CUTTING OR DAMAGING THE REINFORCING BARS.
11. APPLY PROOF TEST LOADS TO ANCHORS WITHOUT REMOVING THE NUT IF POSSIBLE. IF NOT, REMOVE NUT AND INSTALL A THREADED COUPLER TO THE SAME TIGHTNESS OF THE ORIGINAL NUT USING A TORQUE WRENCH AND APPLY LOAD.
12. TEST EQUIPMENT IS TO BE CALIBRATED BY AN APPROVED TESTING LABORATORY IN ACCORDANCE WITH STANDARD RECOGNIZED PROCEDURES.
13. THE FOLLOWING CRITERIA APPLY FOR THE ACCEPTANCE OF INSTALLED ANCHORS:

    a. HYDRAULIC RAM METHOD: ANCHORS TESTED WITH A HYDRAULIC JACK OR SPRING LOADED DEVICES SHALL MAINTAIN THE TEST LOAD FOR A MINIMUM OF 15 SECONDS AND SHALL EXHIBIT NO DISCERNABLE MOVEMENT DURING THE TENSION TEST, e.g., AS EVIDENCED BY LOOSENING OF THE WASHER UNDER THE NUT.

    b. TORQUE WRENCH METHOD: ANCHORS TESTED WITH A CALIBRATED TORQUE WRENCH MUST ATTAIN THE SPECIFIED TORQUE WITHIN 1/2 TURN OF THE NUT.
14. TESTING SHOULD OCCUR 24 HOURS MINIMUM AFTER INSTALLATION OF THE SUBJECT ANCHORS.
15. SPECIAL INSPECTION IN ACCORDANCE WITH TABLE 1705.3 OF THE IBC SHALL BE PROVIDED FOR ANCHOR INSTALLATIONS.
16. FOR ANCHORS BY BRANDS OTHER THAN THAT LISTED ON THESE DRAWINGS, CONTRACTOR SHALL SUBMIT APPROVED TEST REPORTS FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION, FOR THE PARTICULAR LOCATION OF USE.
17. USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING REINFORCING BARS. DO NOT CUT EXISTING REINFORCING BARS WHICH MAY CONFLICT WITH ANCHOR LOCATION UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.

DRILLED ADHESIVE ANCHORS

1. ADHESIVE ANCHORS IN CONCRETE SHALL BE HILTI HIT-500-SD AS MANUFACTURED BY HILTI INC. (ICC ESR-2322)
2. SPECIAL INSPECTION IN ACCORDANCE WITH TABLE 1705.3 OF THE IBC SHALL BE PROVIDED FOR THE HIT-RE-500-SD ANCHOR INSTALLATIONS.
3. INSTALL ANCHORS PER THE INSTALLATION PROCEDURE DESCRIBED IN THE REPORT'S REFERENCED ABOVE WITH CARBIDE-TIPPED DRILL BITS CONFORMING ANSI B212.15.
4. USE NON-DESTRUCTIVE METHODS TO LOCATE EXISTING REINFORCING BARS. DO NOT CUT EXISTING REINFORCING BARS WHICH MAY CONFLICT WITH ANCHOR LOCATION UNLESS SPECIFICALLY APPROVED BY THE ENGINEER.
5. PROOF LOAD TESTS SHALL BE IN ACCORDANCE WITH MANUFACTURER AND CODE REQUIRMENTS.
6. THESE TYPES OF ANCHORS ARE PERMITTED INDOORS WHERE AT LEAST 1 HOUR FIRE RATING IS PROVIDED.
7. FOR ANCHORS BY BRANDS OTHER THAN THAT LISTED ON THESE DRAWINGS, CONTRACTOR SHALL SUBMIT APPROVED TEST REPORTS FOR ENGINEER'S APPROVAL PRIOR TO INSTALLATION, FOR THE PARTICULAR LOCATION OF USE.

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:
STRUCTUTAL ENGINEER
KPFF
6080 CENTER DRIVE, SUITE 300
LOS ANGELES, CA 90045
Tel 310-665-1536

Seals and Signatures
REGISTERED PROFESSIONAL ENGINEER MICHAEL A. DYGEAN No. 4152 Exp. 9-30-16 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:
LEO A DALY
PLANNING ARCHITECTURE ENGINEERING INTERIORS
550 South Hope Street, 27th Floor
Los Angeles, California 90071, USA
213-629-0100 F213-629-0070
EST. 1915

Drawing Title: **GENERAL NOTES**

Approved: Project Director

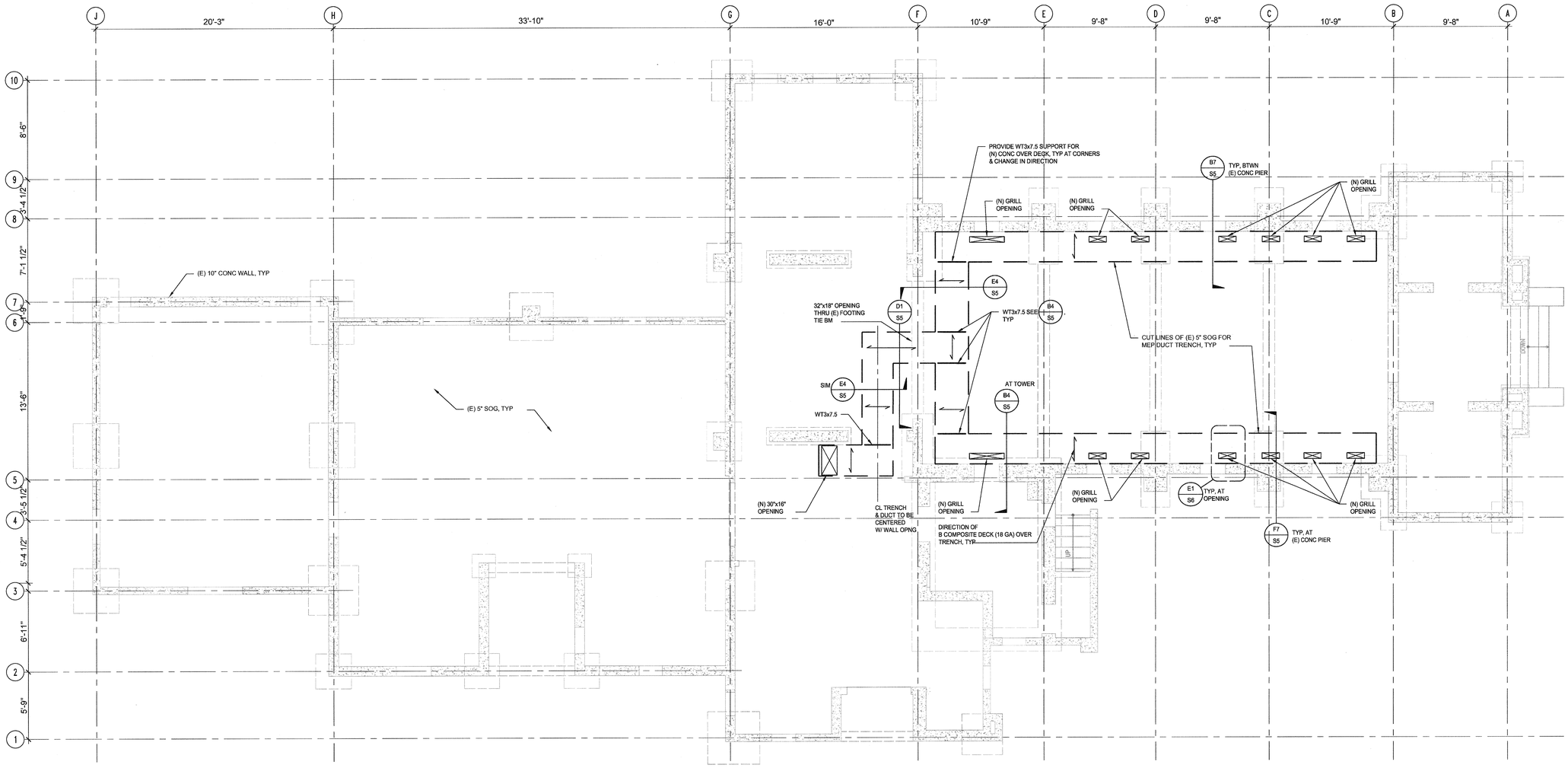
Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032
Building Number: 1001
Drawing Number: S2
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs



1 FIRST FLOOR FOUNDATION PLAN
SCALE = 1/4"=1'-0"

TRUE NORTH

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

STRUCTUTAL ENGINEER
KPFF
6080 CENTER DRIVE, SUITE 300
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Seals and Signatures

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Los Angeles, California 90071, USA
213-629-0100 F213-629-0070
EST. 1915

Drawing Title: **FIRST FLOOR FOUNDATION PLAN**

Approved: Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032

Building Number: 1001

Drawing Number: **S3** Dwg. of

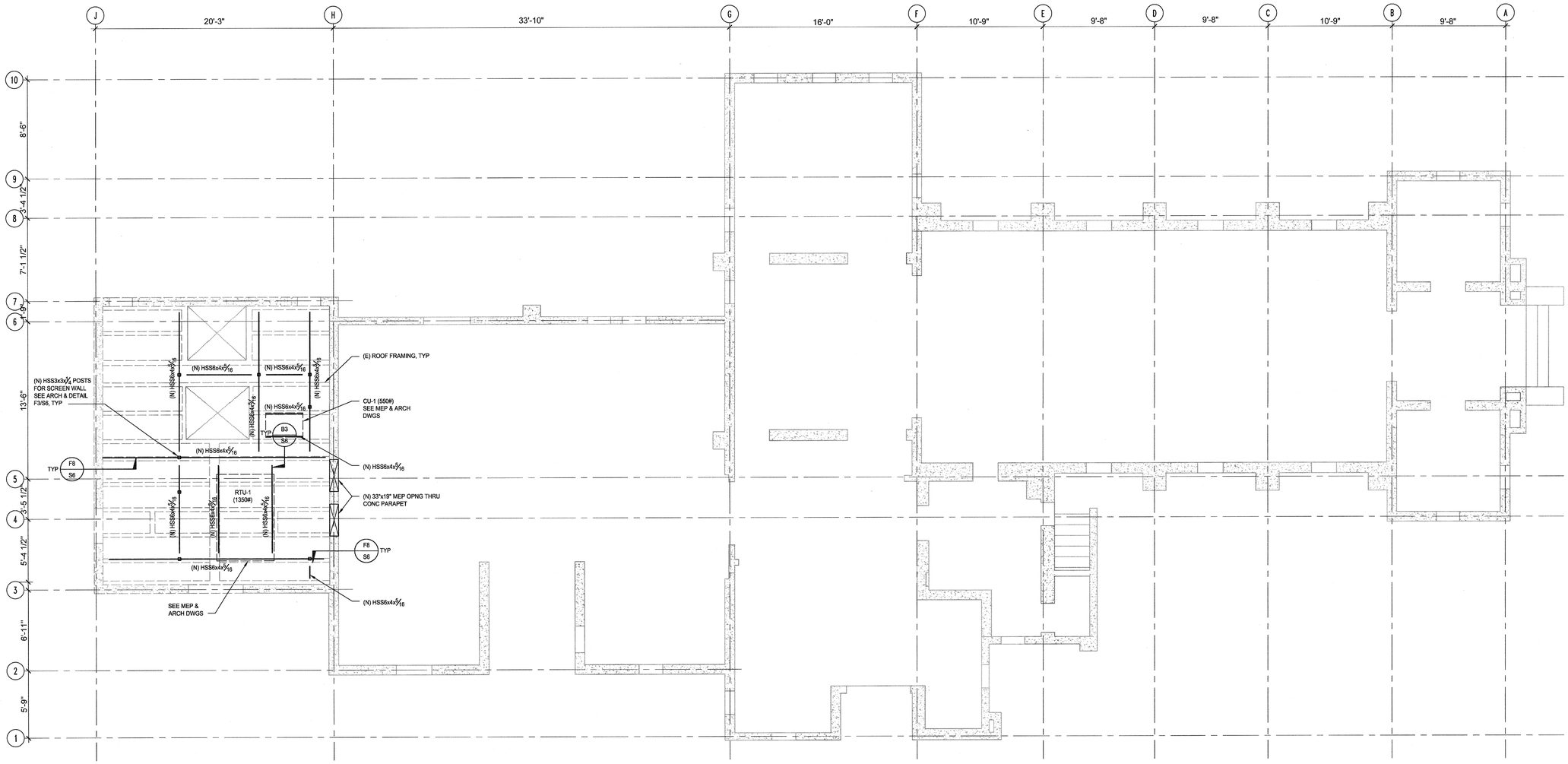
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
three eighths inch = one foot
one quarter inch = one foot
one eighth inch = one foot

K:\2015\115292 - VA LA NCA Chapel Renovation\S Sdraft\S3 FIRST FLOOR FOUNDATION PLAN.dwg 6-08-16 02:19:39 PM JChouairy



NOTES:

1. ALL (N) STEEL SHALL BE HOT DIPPED GALVANIZED.
2. LOCATE (E) REINF'S PRIOR TO DRILLING FOR (N) ANCHORS. (E) REINF'S SHALL NOT BE CUT TO INSTALL (N) ANCHORS. RELOCATE ANCHORS ACCORDINGLY.

1 ROOF FRAMING PLAN
SCALE = 1/4"=1'-0"

TRUE NORTH

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

STRUCTUTAL ENGINEER
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EST. 1915

Drawing Title: **ROOF FRAMING PLAN**

Approved Project Director:

Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032

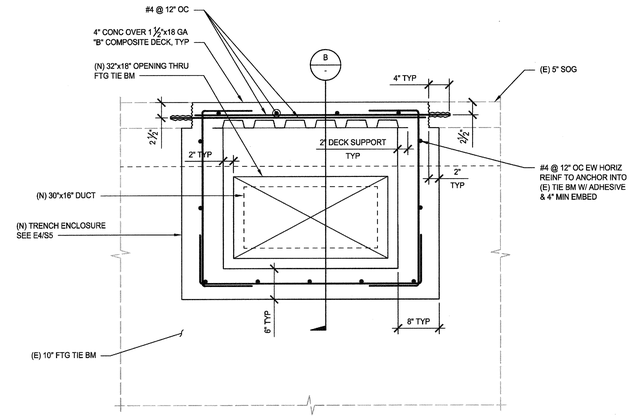
Building Number: 1001

Drawing Number: **S4** Dwg. of

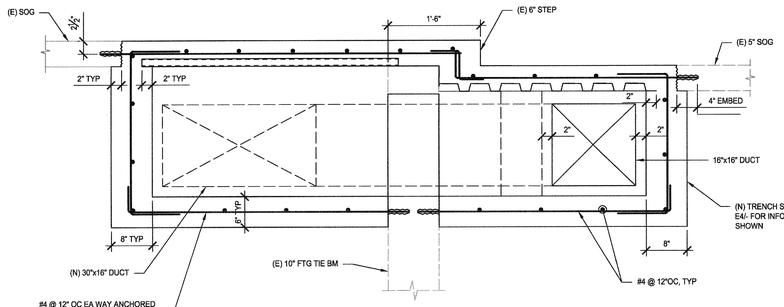
Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



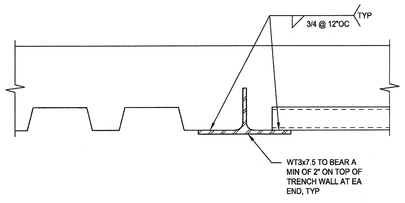
A SECTION AT (N) OPENING THRU TIE BM



B DETAIL

FOR REINF'S AND OTHER INFO SEE E4/S5.

D1 DETAIL
SCALE: 1"=1'-0"



F1 DETAIL
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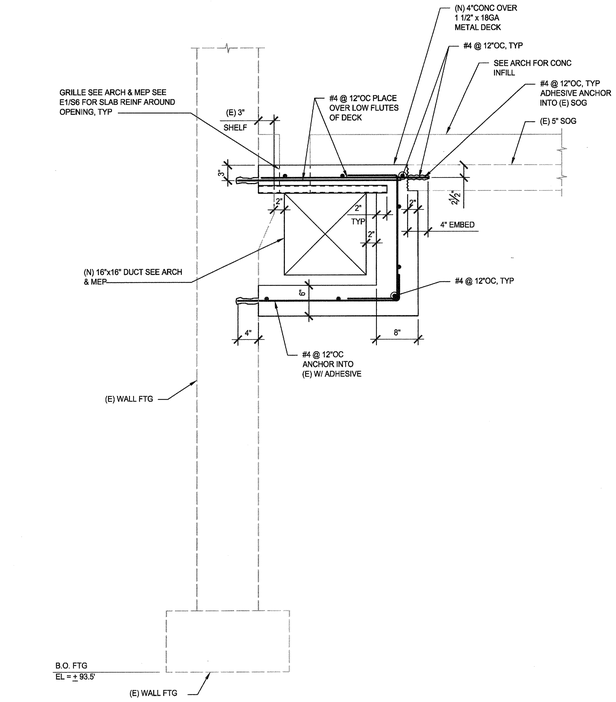

B4 DETAIL
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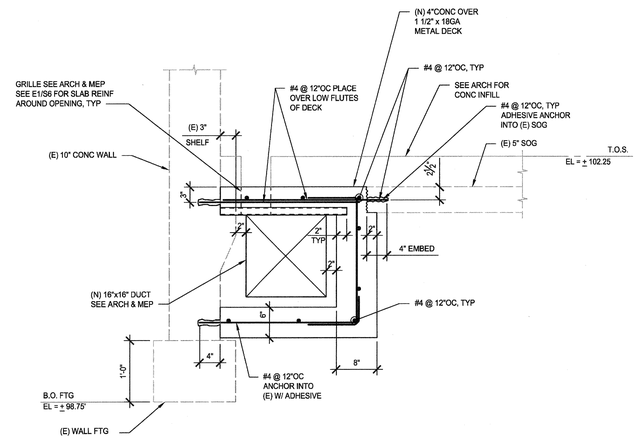

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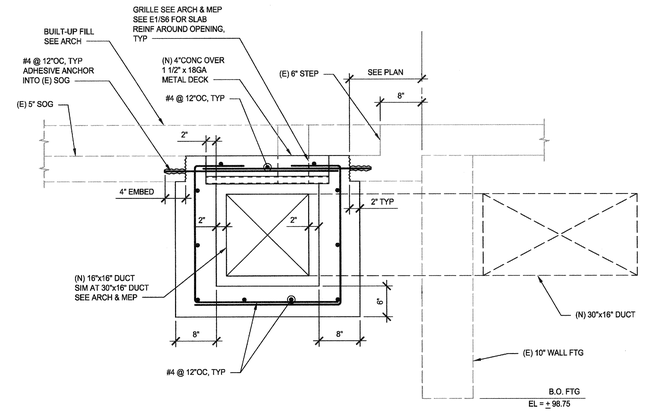

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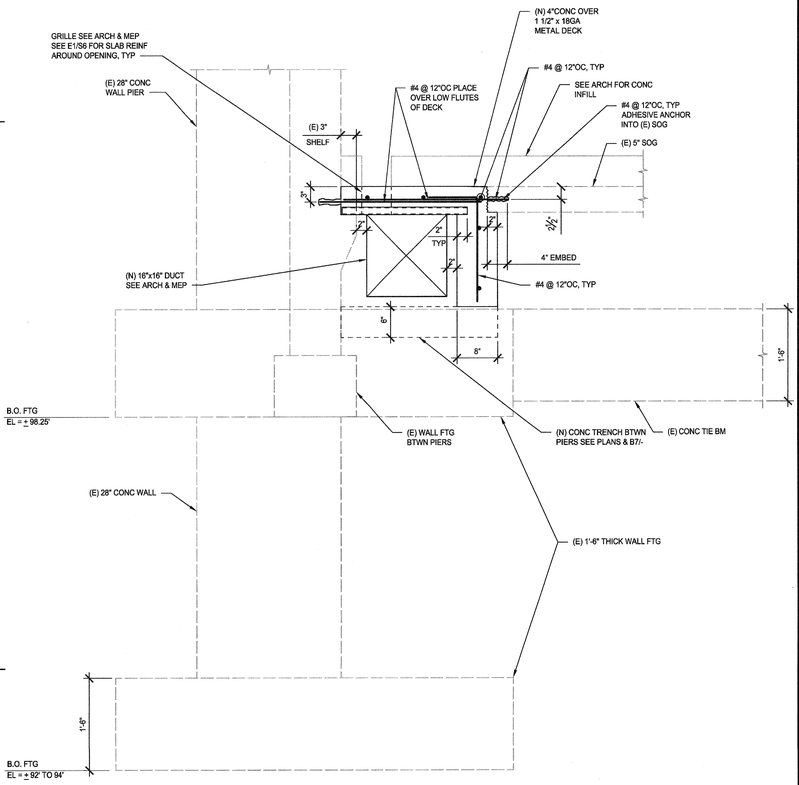

F7 DETAIL
SCALE: 1"=1'-0"

NON-SPRINKLERED

CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

STRUCTUTAL ENGINEER
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Tel 310-665-1536

Seals and Signatures

REGISTERED PROFESSIONAL ENGINEER MICHAEL A. DYGDON No. 4152 Exp. 6-30-16 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

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Los Angeles, California 90071, USA
213-629-0100 F213-629-0070
EST. 1915

Drawing Title: **DETAILS**

Approved: Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032

Building Number: 1001

Drawing Number: **S5**

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231

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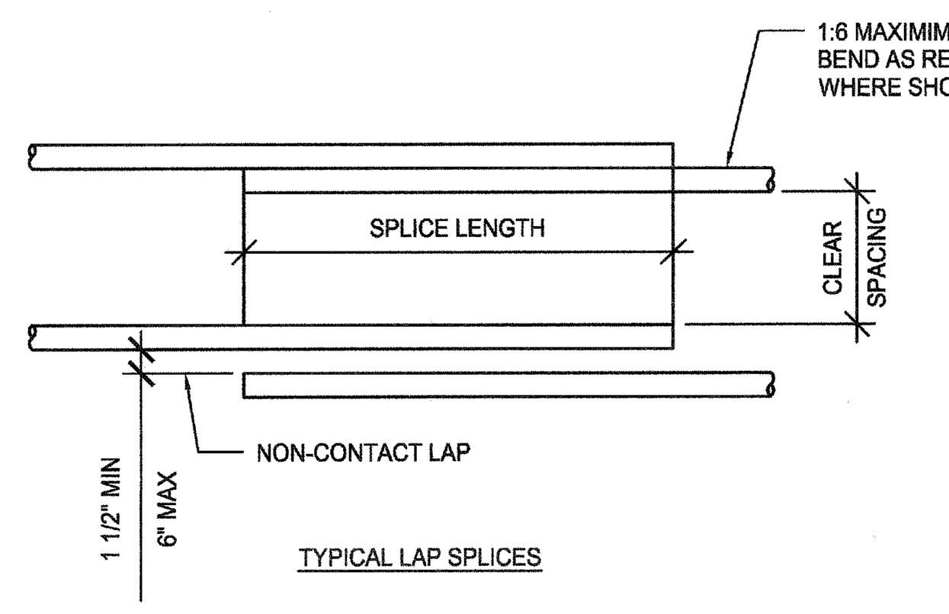
NON-SHEAR WALL REINFORCING BAR TENSION SPLICE LENGTH (GRADE 60)

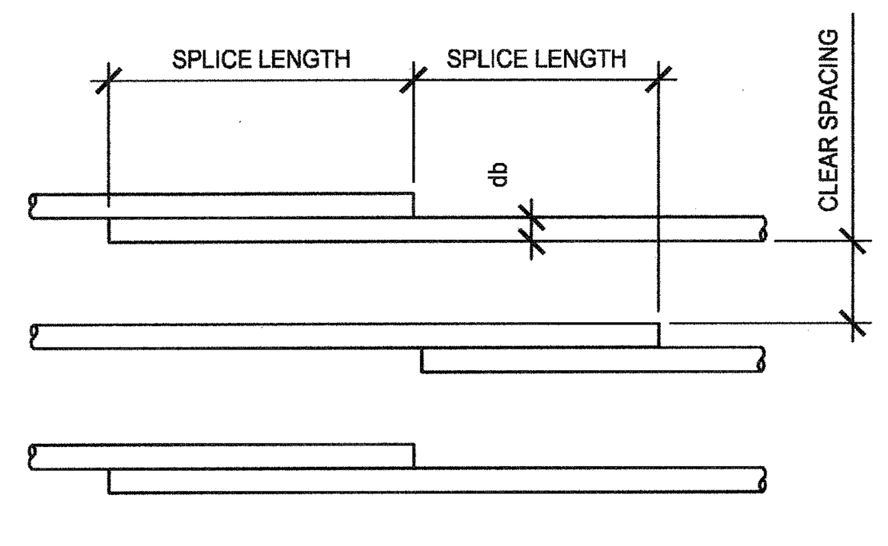
BAR DESCRIPTION	f'c (psi)	BAR SIZE / LAP CLASS	#11 DEVELOPMENT LENGTH "Ld"	#11 LAP SPLICE LENGTH "Ls"	#10 DEVELOPMENT LENGTH "Ld"	#10 LAP SPLICE LENGTH "Ls"	#9 DEVELOPMENT LENGTH "Ld"	#9 LAP SPLICE LENGTH "Ls"	#8 DEVELOPMENT LENGTH "Ld"	#8 LAP SPLICE LENGTH "Ls"	#7 DEVELOPMENT LENGTH "Ld"	#7 LAP SPLICE LENGTH "Ls"	#6 DEVELOPMENT LENGTH "Ld"	#6 LAP SPLICE LENGTH "Ls"	#5 DEVELOPMENT LENGTH "Ld"	#5 LAP SPLICE LENGTH "Ls"	#4 DEVELOPMENT LENGTH "Ld"	#4 LAP SPLICE LENGTH "Ls"
CLEAR SPACING OF BARS NOT LESS THAN db, CLEAR COVER NOT LESS THAN db, AND STIRRUPS AND TIES THROUGHOUT ld NOT LESS THAN THE CODE MINIMUM OR CLEAR SPACING OF BARS NOT LESS THAN 2db AND CLEAR COVER NOT LESS THAN db	4000 NWC	TOP	7'-1"	9'-3"	6'-6"	8'-5"	5'-10"	7'-7"	5'-2"	6'-9"	4'-6"	5'-11"	3'-1"	4'-1"	2'-7"	3'-5"	2'-1"	2'-9"
		OTHER	5'-6"	7'-1"	5'-0"	6'-6"	4'-6"	5'-10"	4'-0"	5'-2"	3'-6"	4'-6"	2'-5"	3'-1"	2'-0"	2'-7"	1'-7"	2'-1"
	3000 NWC	TOP	8'-2"	10'-8"	7'-6"	9'-8"	6'-9"	8'-9"	6'-0"	7'-9"	5'-3"	6'-9"	3'-7"	4'-8"	3'-0"	3'-11"	2'-5"	3'-2"
		OTHER	6'-4"	8'-2"	5'-9"	7'-6"	5'-2"	6'-9"	4'-7"	6'-0"	4'-0"	5'-3"	2'-9"	3'-7"	2'-4"	3'-0"	1'-10"	2'-5"
	3000 LWC	TOP	6'-4"	8'-2"	5'-9"	7'-6"	5'-2"	6'-9"	4'-7"	6'-0"	4'-0"	5'-3"	2'-9"	3'-7"	2'-4"	3'-0"	1'-10"	2'-5"
		OTHER	4'-10"	6'-4"	4'-5"	5'-9"	4'-0"	5'-2"	3'-7"	4'-7"	3'-1"	4'-0"	2'-2"	2'-9"	1'-10"	2'-4"	1'-5"	2'-5"
OTHER CASES	4000 NWC	TOP	10'-8"	13'-10"	9'-8"	12'-8"	8'-9"	11'-5"	7'-9"	10'-2"	6'-9"	8'-10"	4'-8"	6'-1"	3'-11"	5'-1"	3'-1"	4'-1"
		OTHER	8'-2"	10'-8"	7'-5"	9'-8"	6'-9"	8'-9"	6'-0"	7'-9"	5'-3"	6'-9"	3'-7"	4'-8"	3'-0"	3'-11"	2'-5"	3'-1"
	3000 NWC	TOP	12'-3"	15'-11"	11'-2"	14'-6"	10'-1"	13'-1"	8'-11"	11'-7"	7'-10"	10'-2"	5'-5"	7'-0"	3'-6"	5'-10"	3'-7"	4'-8"
		OTHER	9'-5"	12'-3"	8'-7"	11'-2"	7'-9"	10'-1"	6'-11"	8'-11"	6'-0"	7'-10"	4'-2"	5'-5"	3'-6"	4'-6"	2'-9"	3'-7"
	3000 LWC	TOP	9'-5"	12'-3"	8'-7"	11'-2"	7'-9"	10'-1"	6'-11"	8'-11"	6'-0"	7'-10"	4'-2"	5'-5"	3'-6"	4'-6"	2'-9"	3'-7"
		OTHER	7'-3"	9'-5"	6'-7"	8'-7"	6'-0"	7'-9"	5'-4"	6'-11"	4'-8"	6'-0"	3'-2"	4'-2"	2'-8"	3'-6"	2'-2"	2'-9"

NOTES:

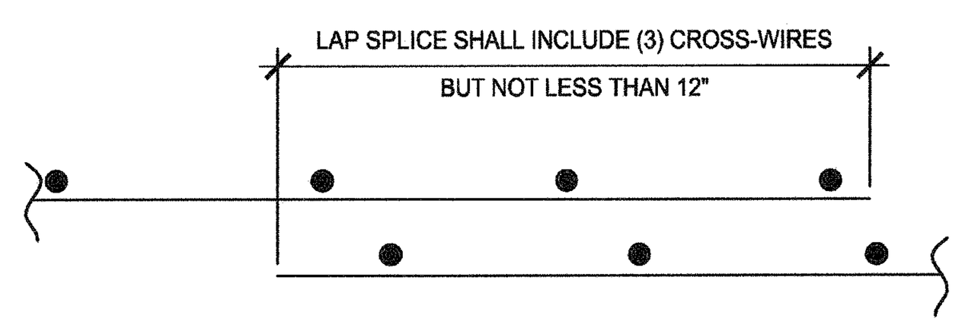
1. BAR SPLICES NOT COVERED BY THIS SCHEDULE ARE SPECIFICALLY DETAILED AND DIMENSIONED ON PLANS.
2. TOP BARS ARE HORIZONTAL REINFORCEMENT WITH MORE THAN 12" OF CONCRETE CAST BELOW BAR.
3. OTHER BARS ARE VERTICAL REINFORCEMENT, AND HORIZONTAL REINFORCEMENT WITH LESS THAN 12" OF CONCRETE CAST BELOW BAR.
4. COVER DESIGNATES CLEAR CONCRETE COVER FROM SPLICED BAR TO FACE OF MEMBER. SPACING DESIGNATES CENTER - TO - CENTER SPACING OF SPLICED BARS.
5. FOR SHEAR WALLS, DEVELOPMENT AND SPLICE LENGTHS OF VERTICAL BARS SHALL BE 1.25 TIMES THE SCHEDULED LENGTHS.



TYPICAL LAP SPLICES

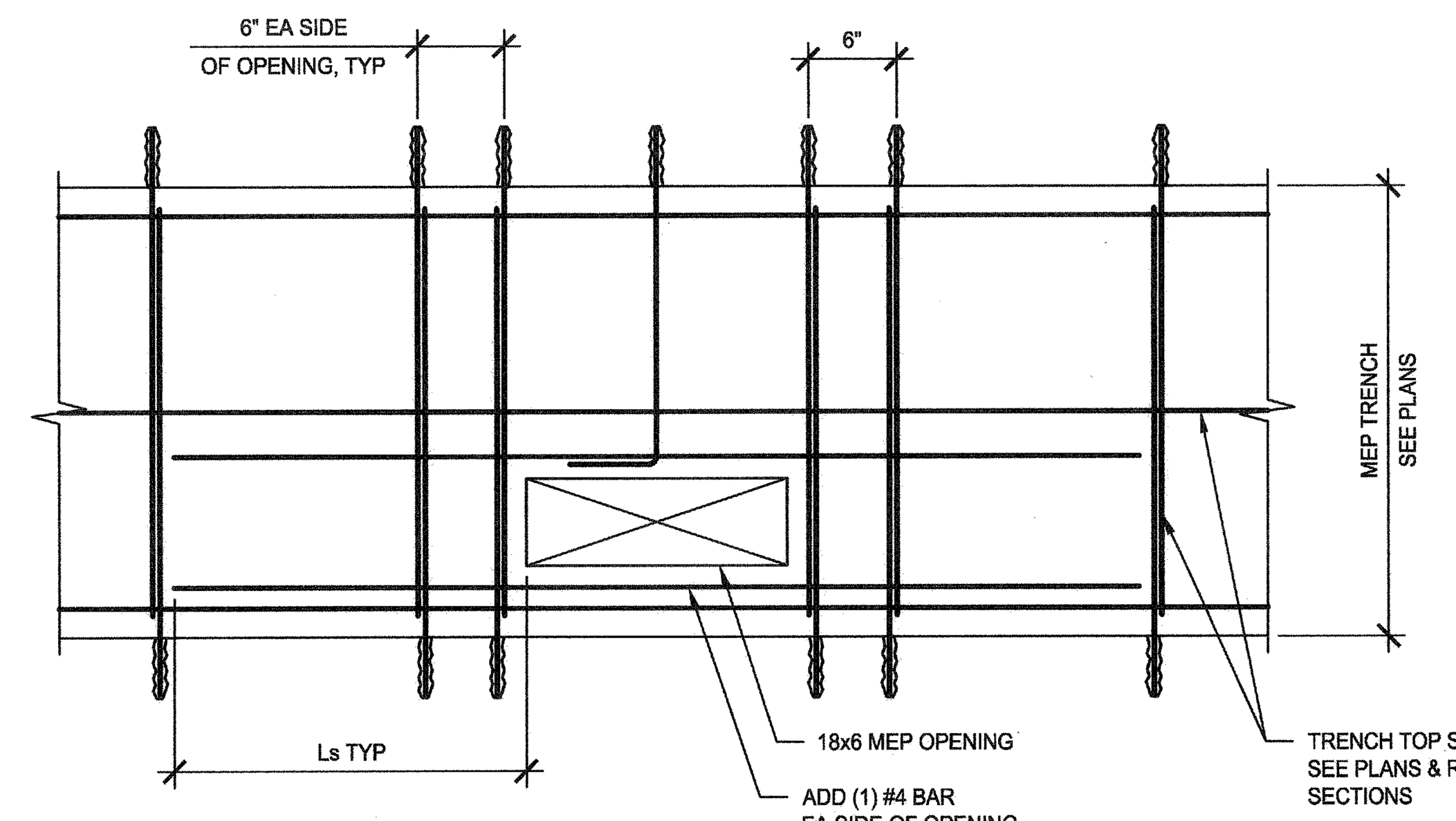


STAGGERED SPLICING

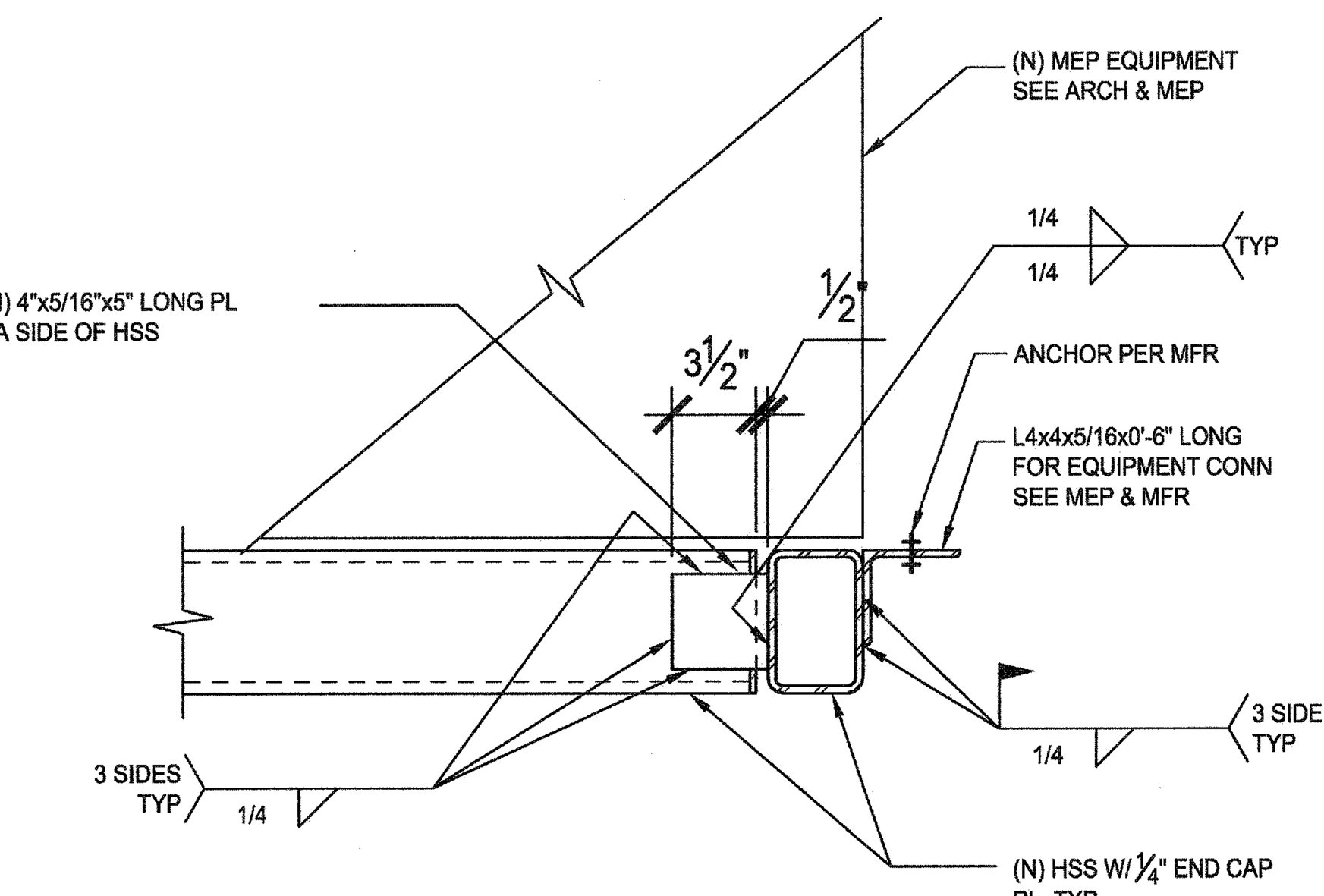


WELDED WIRE FABRIC SPLICE

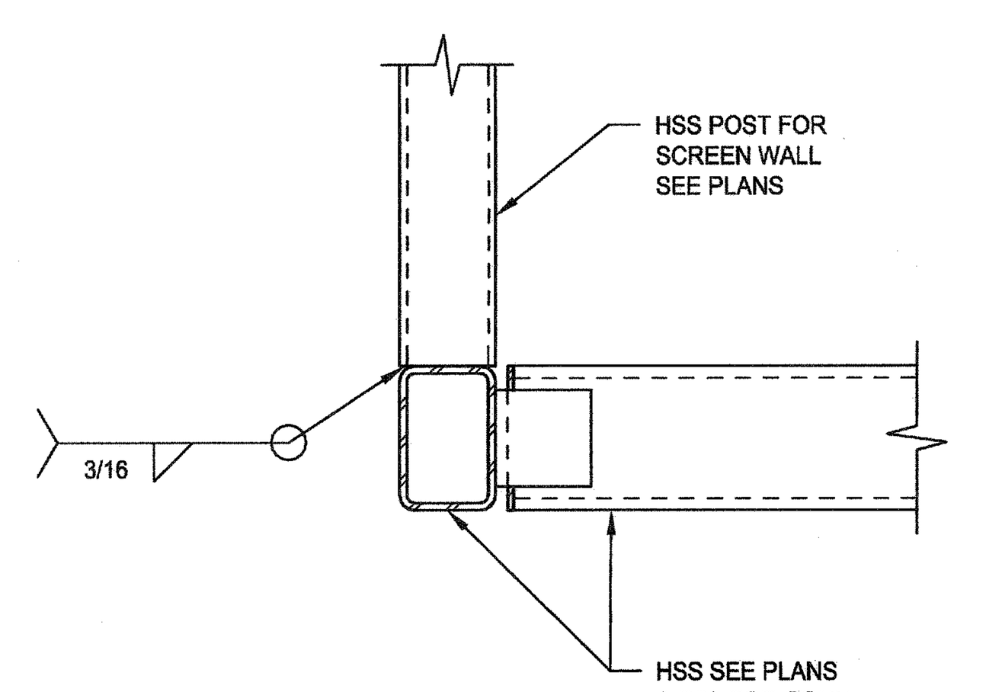
C1 DEVELOPMENT AND SPLICES OF CONCRETE REINFORCING BARS (NON SHEAR WALL)
SCALE: 1"=1'-0"



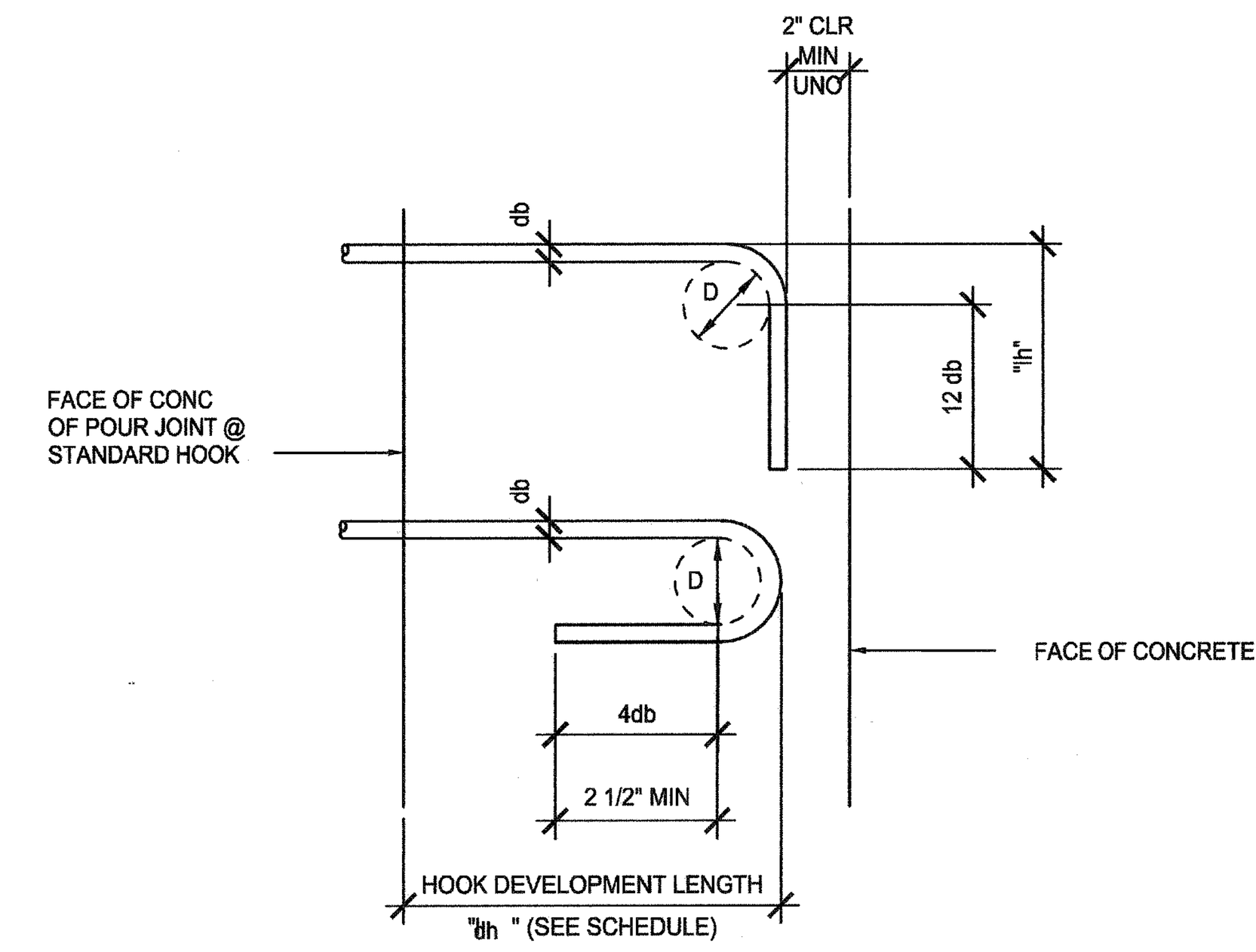
E1 TYPICAL REINFORCING AT MEP GRILL
SCALE: 1"=1'-0"



D3 CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



F3 CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"

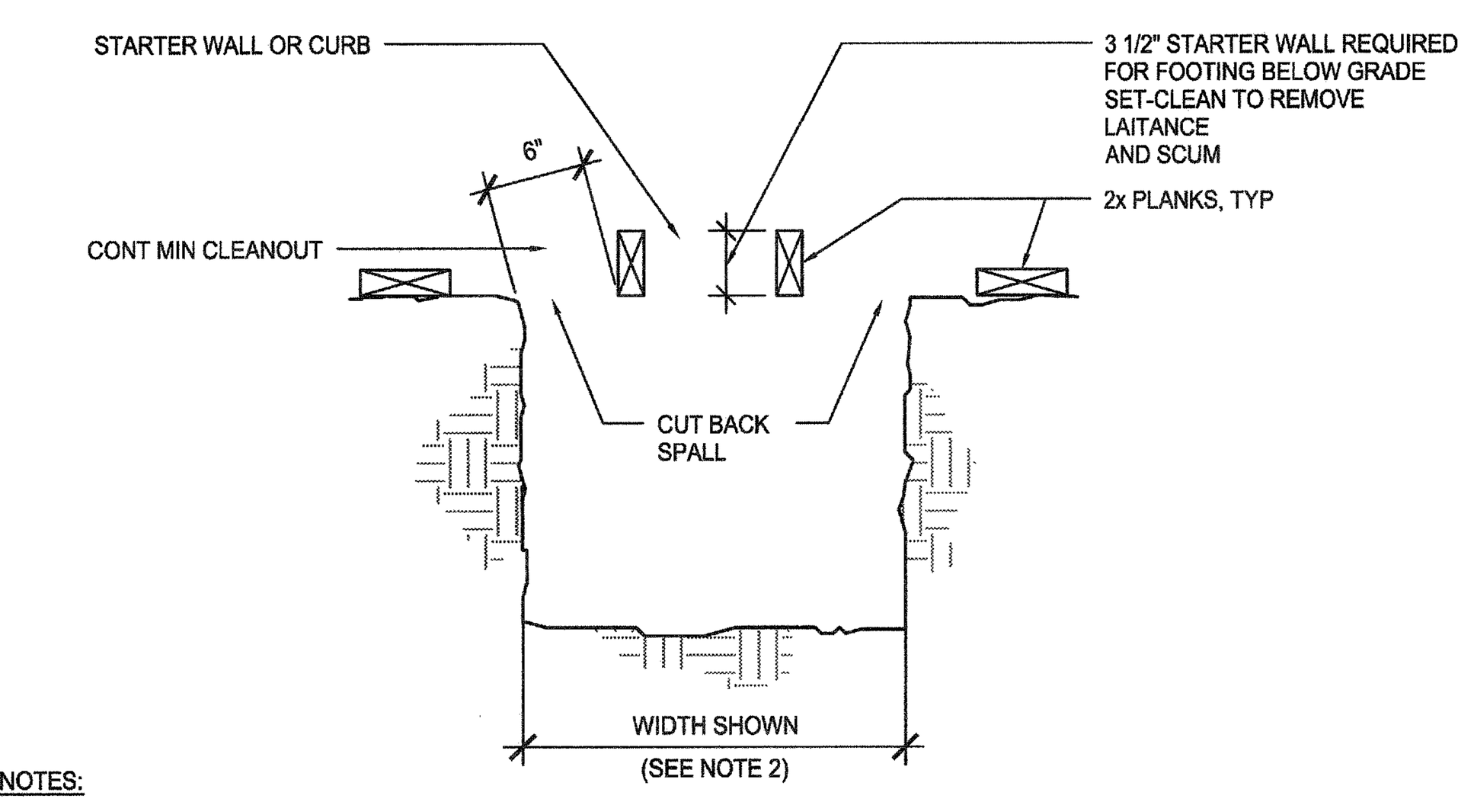


STANDARD HOOK DEVELOPMENT LENGTH "l_{dh}"								
			NORMAL WEIGHT			LIGHT WEIGHT		
BAR SIZE	D	"l_h"	3000	4000	5000	3000	4000	5000
#3	2 1/4"	6"	0'-9"	0'-8"	0'-7"	0'-11"	0'-10"	0'-9"
#4	3"	8"	0'-11"	0'-10"	0'-9"	1'-3"	1'-1"	1'-0"
#5	3 3/4"	10"	1'-2"	1'-0"	0'-11"	1'-6"	1'-4"	1'-2"
#6	4 1/2"	12"	1'-5"	1'-3"	1'-1"	1'-10"	1'-7"	1'-5"
#7	5 1/4"	1'-2"	1'-8"	1'-5"	1'-3"	2'-1"	1'-10"	1'-8"
#8	6"	1'-4"	1'-10"	1'-7"	1'-5"	2'-5"	2'-1"	1'-11"
#9	9 1/2"	1'-7 1/2"	2'-1"	1'-10"	1'-8"	2'-9"	2'-4"	2'-1"
#10	10 3/4"	1'-10"	2'-4"	2'-1"	1'-10"	3'-1"	2'-8"	2'-5"
#11	12"	2'-0 1/2"	2'-7"	2'-3"	2'-0"	3'-5"	2'-11"	2'-8"

NOTES:

1. ALL HOOKED BARS SHALL EXTEND AS FAR AS POSSIBLE WITH A MINIMUM 2" END COVER AND WITH EMBEDMENT NOT LESS THAN SHOWN ON THE SCHEDULE. UNO ON PLANS.
2. MINIMUM SIDE COVER = 2 1/2".
3. "idh" MAY BE REDUCED BY 0.7 IF CONDITIONS OF NOTES 1 & 2 ARE MET.

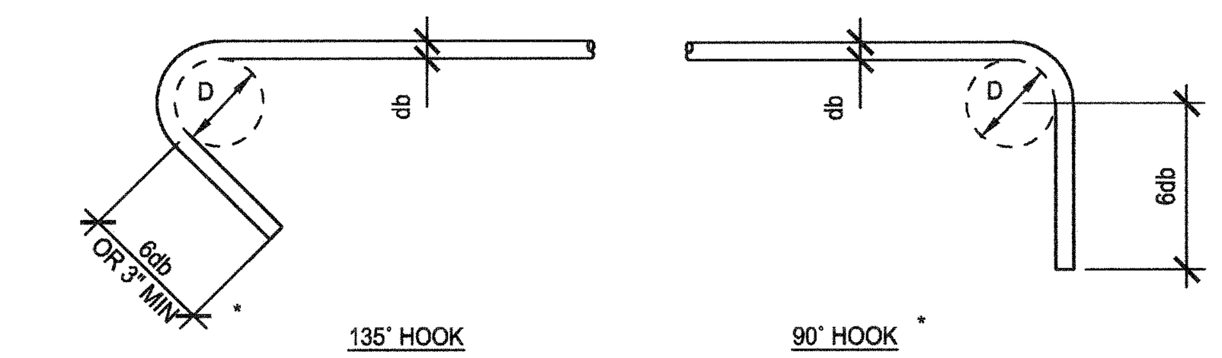
B6 STANDARD HOOK DEVELOPMENT LENGTH BENDING DETAIL
SCALE: 1"=1'-0"



NOTES:

1. FORMWORK NOT PERMITTED BELOW GRADE (UNLESS SIDES OF FOOTING ARE FULLY FORMED). STAKES ARE NOT PERMITTED IN FOOTING SECTION.
2. ADD 3" WHERE FOOTINGS ARE CAST AGAINST SOIL. NO INCREASE REQUIRED WHEN CAST AGAINST ROCK.

D6 MANDATORY MINIMUM FRAMEWORK
SCALE: 1"=1'-0"



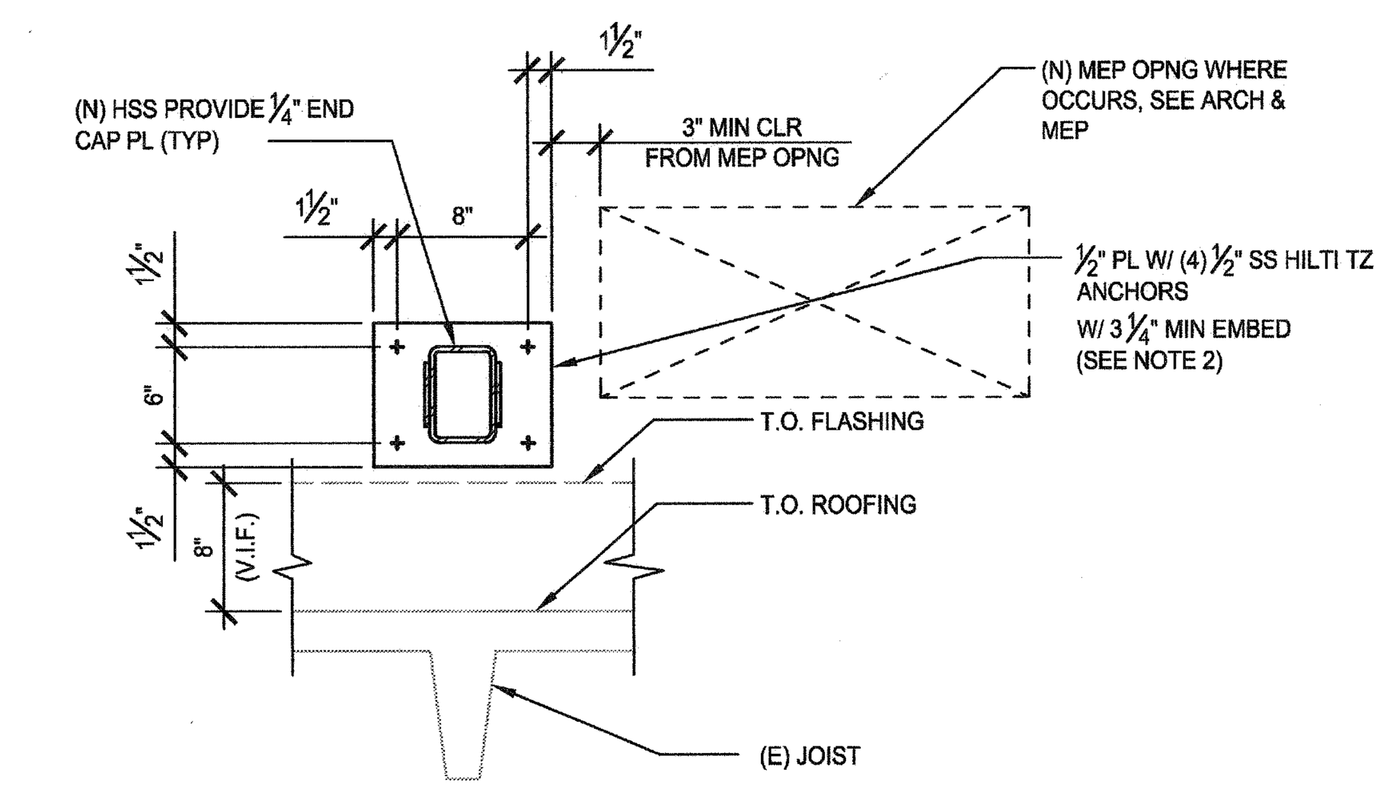
135° HOOK

90° HOOK *

BAR SIZE	D
#3	1 1/2"
#4	2"
#5	2 1/2"

* PROVIDE 10db EXTENSIONS IN LIEU OF 6db AT ALL FRAMING COLUMNS, GIRDERS, SHEAR WALLS AND SHEAR WALL BOUNDARY MEMBERS

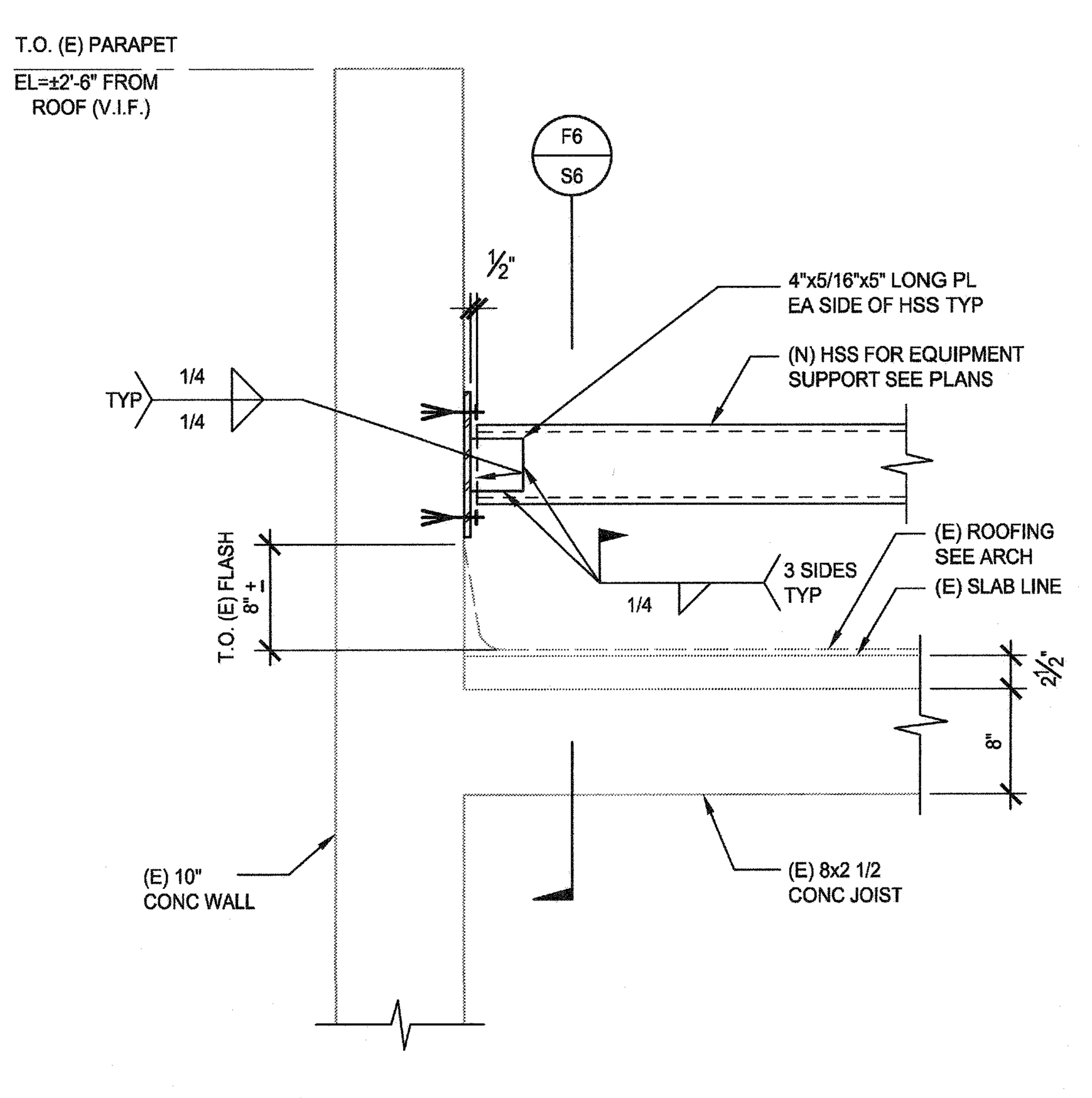
D8 TIES & STIRRUPS DETAIL
SCALE: 1"=1'-0"



NOTES:

1. ALL (N) STEEL SHALL BE HOT DIPPED GALVANIZED.
2. LOCATE (E) REINF. (E) REINF SHALL NOT BE CUT TO INSTALL ANCHORS. RELOCATE ANCHORS ACCORDINGLY.

F6 SECTION
SCALE: 1"=1'-0"



F8 SECTION
SCALE: 1"=1'-0"

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:
STRUCTUTAL ENGINEER
KPFF
6080 CENTER DRIVE, SUITE 300
LOS ANGELES, CA 90045
Tel 310-665-1536

Seals and Signatures
REGISTERED PROFESSIONAL ENGINEER MICHAEL A. DYGEAN No. 4152 Exp. 9-30-16 STRUCTURAL STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:
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550 South Hope Street, 27th Floor
Los Angeles, California 90071, USA
213-629-0100 F213-629-0070
EST. 1915

Drawing Title: **DETAILS**
Approved: Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A
Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049
Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032
Building Number: 1001
Drawing Number: S6
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231

K:\2015\115292 - VA LA NCA Chapel Renovation\5 SDraft\S6 DETAILS.dwg 6-08-16 02:21:31 PM JChoueiry

ARCHITECTURAL REFERENCE SYMBOLS

WINDOW AND LOUVER TYPE TAG

W-X — SEE CORRESPONDING NUMBER ON SCHEDULE

PARTITION TYPE IDENTIFICATION TAG

1i — SEE PARTITION SYMBOL DESCRIPTION ON PARTITION SHEET

KEYNOTE TAG

2 — SEE CORRESPONDING NUMBERED KEYNOTE ON SHEET WHERE REFERENCE OCCURS

FURNITURE, FIXTURE & EQUIPMENT SYMBOL

234

DIMENSION SYMBOL

℄ X ℄* — DIMENSION SHOWN TO:
- CENTERLINE OF ASSEMBLY
- CENTER OF OPENING
- CENTER OF EQUIP / FURN

CENTER LINE TYPICAL

* ℄ SYMBOL OPTIONAL

X — DIMENSION SHOWN TO:
- PARTITION ASSEMBLY
- EDGE OF DOOR OPENING
- OTHER BUILDING ELEMENT
- WPT INDICATED ON DETAIL

GENERAL SYMBOLS

BASE CABINETS

BASE AND WALL CABINETS

WALL CABINETS

TOILET PARTITION AND DOOR

HANDRAIL

BUMPER GUARD

CG CG — CORNER GUARD

EDGE GUARD

OVERHEAD ITEMS

UNDER-COUNTER ITEMS

V V ITEM - VA SUPPLIED & INSTALLED

VC ITEM - VA SUPPLIED & CONTRACTOR INSTALLED

CC ITEM - CONTRACTOR SUPPLIED & INSTALLED

PLUMBING FIXTURES

DRINKING FOUNTAIN- HI-LO

SERVICE SINK

BATHTUB

URINAL- FLOOR/WALL HUNG

TOILET- WALL HUNG

SHOWER

FD — FLOOR DRAIN IN SLOPING FLOOR

SHOWER HEAD

FS — FLOOR SINK

DOOR AND INTERIOR OPENING SYMBOLS

DOOR INDICATION TAG

D001 — DOOR NUMBER, SEE CORRESPONDING NUMBER ON SCHEDULE

D001 — SINGLE OPENING DOOR

D001 — DOUBLE ACTING DOOR

D001 — PAIR OF DOORS - EQUAL SIZES

D001 — PAIR OF DOORS- UNEQUAL SIZES

D001 — PAIR OF DOORS- DOUBLE EGRESS

D001 — DOOR WITH SIDELIGHT

D001 — SLIDING DOOR - BETWEEN JAMBS

D001 — SLIDING DOOR - POCKET

D001 — 2 PANEL BI-FOLDING DOOR

D001 — PAIR- BI-FOLDING DOOR

D001 — OVERHEAD ROLLING DOOR

ARCHITECTURAL MATERIAL INDICATIONS

PLAN AND SECTION

- EARTH
- CONCRETE
- STEEL
- ALUMINUM
- CMU
- WOOD FRAMING, CONTINUOUS
- CERAMIC TILE
- PLASTER OR GYPSUM BOARD
- WOOD
- INSULATION, SEMI-RIGID
- INSULATION, BATT

ARCHITECTURAL GENERAL NOTES

A. THE FOLLOWING GENERAL NOTES APPLY TO ALL A-SERIES DRAWINGS.

B. FOR GENERAL NOTES, APPLICABLE TO ALL DRAWINGS REFER TO THE "PROJECT GENERAL NOTES" ON SHEET X3

C. FOR GENERAL NOTES, ABBREVIATION, AND SYMBOLS APPLICABLE ONLY TO DRAWINGS OF A DISCIPLINE OTHER THAN ARCHITECTURE, REFER TO THE SPECIFIC DRAWINGS OF THAT DISCIPLINE – SEE THE "INDEX OF DRAWINGS" ON SHEET X2

D. THE DRAWINGS ARE INTENDED TO GRAPHICALLY ILLUSTRATE THE OVERALL NATURE OF THE WORK; THE CONFIGURATION, ARRANGEMENT, AND LOCATION OF THE WORK AND ITS PARTS; AND THE PHYSICAL DIMENSIONS OF THE WORK- THE DRAWINGS TAKE PRECEDENCE OVER THE SPECIFICATIONS WITH RESPECT TO INFORMATION OF THIS NATURE.

E. THE SPECIFICATIONS ARE INTENDED TO COMMUNICATE THE DETAILED PROPERTIES AND QUALITY OF THE INDIVIDUAL MATERIALS, ASSEMBLIES, AND SYSTEMS THAT COMPRISE THE WORK; THE FUNCTIONAL AND PERFORMANCE REQUIREMENTS FOR THE INDIVIDUAL PARTS OF THE WORK; AND THE FABRICATION AND INSTALLATION REQUIREMENTS FOR INDIVIDUAL PARTS OF WORK- THE SPECIFICATIONS TAKE PRECEDENCE OVER THE DRAWINGS WITH RESPECT TO INFORMATION OF THIS NATURE.

F. AS PART OF THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE THE WORK OF ALL SUB- CONTRACTORS, TRADES, AND SUPPLIERS, THE CONTRACTOR SHALL ENDEAVOR TO IDENTIFY AND NOTIFY THE VA REPRESENTATIVE OF ANY CONFLICTS AT THE EARLIEST POSSIBLE DATE SO AS TO ALLOW REASONABLE AND ADEQUATE TIME FOR THE CONFLICT TO BE RESOLVED WITHOUT DELAYING THE WORK, ALL DEVIATIONS FROM THAT WHICH IS REQUIRED BY THE CONTRACT DOCUMENTS MUST BE APPROVED IN ADVANCE BY THE VA REPRESENTATIVE.

G. THE ARCHITECTURAL DRAWINGS ARE A PART OF A LARGER SET OF DRAWINGS WHICH, WHEN COMPLETE, CONSISTS OF ALL DRAWINGS LISTED BY THE INDEX OF DRAWINGS, THE WORK DESCRIBED BY THE DRAWINGS OF ANY ONE DISCIPLINE MAY BE AFFECTED BY THE WORK DESCRIBED ON DRAWINGS OF ANOTHER DISCIPLINE AND MAY REQUIRE REFERENCE TO THE DRAWINGS OF ANOTHER DISCIPLINE. PARTIAL SETS OF DRAWINGS ARE INCOMPLETE AND SHOULD NOT BE DISTRIBUTED OR UTILIZED BY THE CONTRACTOR. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW AND COORDINATE THE WORK OF ALL SUB-CONTRACTORS, TRADES, AND SUPPLIERS WITH ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS BEFORE COMMENCING CONSTRUCTION, AND TO ASSURE THAT ALL PARTIES ARE AWARE OF ALL REQUIREMENTS, REGARDLESS OF WHERE THE REQUIREMENTS OCCUR IN THE CONTRACT DOCUMENTS, WHICH MIGHT AFFECT THE WORK OF THAT PARTY.

H. THE ARCHITECTURAL DRAWINGS ESTABLISH AND COORDINATE THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL EXPOSED ELEMENTS IF THE WORK OF ALL TRADES, INCLUDING THAT WORK WHICH IS ILLUSTRATED PRIMARILY ON THE DRAWINGS OF OTHER DISCIPLINES, LOCATIONS SHOWN ON OTHER DRAWINGS ARE SCHEMATIC, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS. THE ARCHITECTURAL DRAWINGS TAKE PRECEDENCE FOR THE FINISHED APPEARANCE AND EXACT LOCATION OF ALL PARTS OF THE WORK, EXCEPTION: DIMENSIONED LOCATIONS SHOWN ON DRAWINGS OF OTHER DISCIPLINES SHALL GOVERN ONLY WHERE:

1. SPECIFICALLY AND INDIVIDUALLY INDICATED BY SYMBOL, KEY NOTE, OR NOTATION ON THE ARCHITECTURAL DRAWINGS.

2. OCCURRING WITHIN A ROOM OR OTHER IDENTIFIED SPACE FOR WHICH ARCH SHEET OR SCHEDULE NOTES INDICATE THAT DIMENSIONS PROVIDED ELSEWHERE SHALL GOVERN.

I. THE ARCHITECTURAL FLOOR PLANS, REFLECTED CEILING PLANS, SECTIONS, AND ELEVATIONS ILLUSTRATE THE EXACT LOCATION MANY, BUT NOT ALL, EXPOSED PARTS OF THE WORK, APPLY THE RULES INDICATED BY THE DRAWING "TYPICAL MOUNTING HEIGHTS AND CONFIGURATION DIAGRAMS" TO DETERMINE THE EXACT LOCATION OF EACH EXPOSED PART OF THE WORK.

J. REFER TO THE STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR THE DETAILED DESIGN OF STRUCTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS OF WHICH PORTIONS MAY BE SHOWN ON THE ARCHITECTURAL DRAWINGS.

K. FINISH FLOOR ELEVATIONS ARE TO TOP OF THE CONCRETE FLOOR SLAB, UON. WHERE THE CONCRETE IS DEPRESSED TO ACCOMMODATE MORTAR BEDS, SETTING BEDS, RAISED ACCESS FLOORS, AND OTHER SIMILAR FLOOR ASSEMBLIES, FINISHED FLOOR ELEVATIONS ARE TO TOP OF THE FINISHED FLOOR ASSEMBLY INDICATED.

L. CEILING HEIGHT DIMENSIONS ARE TO FINISHED SURFACES, UNLESS OTHERWISE NOTED.

M. FOR TYP DIMENSIONS CONVENTIONS, INCLUDING RULES FOR LOCATING DOORS WHICH HAVE NOT BEEN DIMENSIONED, REFER TO THE "ARCHITECTURAL DIMENSIONING CONVENTIONS" NOTES ON THIS SHEET.

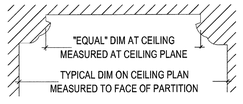
N. FOR ILLUSTRATION AND DEFINITION OF TYPICAL SYMBOLS USED ON THE ARCHITECTURAL DRAWINGS, REFER TO THE "ARCHITECTURAL SYMBOLS" ON SHEET 1

O. ADDITIONAL SYMBOLS, NOT SHOWN OR DEFINED ON THIS DRAWING MAY OCCUR AND ARE DEFINED ON OTHER ARCHITECTURAL DRAWINGS.

ARCHITECTURAL DIMENSIONING CONVENTIONS

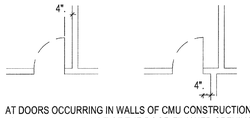
1. EXCEPT WHERE DIRECTED TO PLACE ITEMS OF THE WORK AT THE "APPROXIMATE LOCATION SHOWN," DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION.
2. ALL ELEMENTS OF THE DRAWINGS MAY NOT BE DRAWN TO EXACT SCALE. ALL DIMENSIONS REQUIRED ARE SHOWN (OR MAY BE DERIVED FROM THOSE SHOWN OR NOTED) ON THE FLOOR PLANS, DETAIL PLANS, ELEVATIONS, SECTIONS, SCHEDULES, CONFIGURATION DETAILS AND SPECIFICATIONS. SEE THE NOTES BELOW AND SYMBOLS ON THIS SHEET FOR DIMENSIONING CONVENTIONS USED ON THIS PROJECT.
3. EXCEPT WHERE SPECIFICALLY NOTED TO THE CONTRARY, ALL DIMENSIONS SHOWN ON THE ARCHITECTURAL DRAWINGS CONFORM TO THE FOLLOWING CONVENTIONS.
   A. DIMENSIONS UTILIZING THE "CENTERLINE" SYMBOL ARE MEASURED TO
      - STRUCTURAL OR DIMENSIONAL GRID LINES.
      - CENTERLINE OF CONCRETE OR CMU WALLS (EXCLUSIVE OF FURRING OR APPLIED FINISHES HAVING THICKNESS). REFER TO THE ARCHITECTURAL PLANS AND SECTIONS, THE STRUCTURAL DRAWINGS OR PARTITION SCHEDULE TO DETERMINE THE THICKNESS OF CONCRETE OR CMU WALLS.
      - CENTERLINE OF PARTITION ASSEMBLY(EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALLS) AT PARTITIONS FRAMED WITH METAL STUDS. REFER TO "PARTITION SCHEDULE" TO DETERMINE THICKNESS OF EACH PARTITION TYPE.
      - CENTERLINE OF DOOR, WINDOW OR LOUVER OPENING.
      - CENTERLINE OF EQUIPMENT OR FURNISHING.
      - CENTERLINE OF OTHER FEATURES AS INDICATED.
3. NOTE NO. 3 CONTINUED
   B. REFER TO THIS SHEET FOR SYMBOL USED TO INDICATE CENTERLINE DIMENSION.
   C. UNLESS NOTED OTHERWISE, DIMENSIONS ARE MEASURED TO THE "FACE OF " AND ARE MEASURED TO
      - FACE OF CONCRETE OR CMU WALL (EXCLUSIVE OF APPLIED FINISH HAVING THICKNESS OR FURRING WHICH MAY BE ADDED TO THE FACE OF SUCH WALLS).
      - FACE OF PARTITION ASSEMBLY (EXCLUSIVE OF ANY APPLIED FINISHES HAVING THICKNESS WHICH MAY BE ADDED TO SUCH WALL) AS DEFINED BY THE PARTITION SCHEDULE UNLESS NOTED AS A "FACE OF FINISH" OR "CLEAR" DIMENSION (SEE NOTE "E" BELOW). DIMENSIONS ARE NOT MEASURED TO THE FACE OF APPLIED FINISH. REFER TO THE "PARTITION SCHEDULE" TO DETERMINE THE THICKNESS OF EACH PARTITION TYPE.
      - INSIDE EDGE OF FINISHED DOOR OPENING. REFER TO THE "DOOR SCHEDULE" FOR ADDITIONAL DIMENSIONAL INFORMATION.
      - DIMENSIONS OR WORK POINT AS INDICATED ON RELATED ARCHITECTURAL DETAIL PLAN, SECTION, ELEVATION, LAYOUT OR CONFIGURATION DETAIL , OR CONSTRUCTION DETAIL.
   D. REFER TO THIS SHEET FOR SYMBOL USED TO INDICATE "FACE OF" DIMENSION.
   E. WHERE "FACE OF FINISH" OR "CLEAR" DIMENSIONS ARE SPECIALLY NOTED. THE DIMENSION IS MEASURED TO:
3. NOTE NO. 3 CONTINUED
      - FINISH FACES AT THE MOST NARROW OR CONSTRICTED POINTS OF SECTION WHERE DIMENSION IS SHOWN, WHEN THE DIMENSION OCCURS ACROSS AN OPEN SPACE. THIS CASE, A "FACE OF FINISH" DIMENSION IS EQUIVALENT TO A "CLEAR" DIMENSION.
      - FINISH FACES AT THE WIDEST OR MOST EXPANSIVE POINTS OF THE SECTION THE DIMENSION IS SHOWN WHEN THE DIMENSION OCCURS ACROSS AN OBJECT OR GROUP OF OBJECTS.
   F. WHERE "EQUAL" DIMENSIONS ARE USED ON REFLECTED CEILING PLANS TO LOCATE CEILING GRID WORK POINTS, MEASURE DIMENSIONS TO
      - EDGE OF THE INDICATED CEILING AT THE FACE OF THE ADJACENT APPLIED FINISH MEASURED AT THE PLANE OF THE CEILING.

   CAUTION DUE TO THE POSSIBLE APPLICATION OF APPLIED FINISHES - THICKNESS OF WHICH MAY VARY BETWEEN FLOOR AND CEILING AND IS NOT ACCOUNTED FOR (EXCEPT AS INDICATED BY "FOF" OR "CLEAR") BY THE DIMENSION SHOWN ON THE FLOOR PLANS - THE CONTRACTOR MUST ADJUST, AS NECESSARY, THE FLOOR PLAN DIMENSIONS TO REFLECT THE ACTUAL DIMENSIONS FOUND AT PLANE OF THE CEILING..

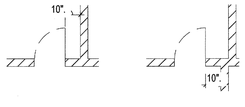


4. WHERE DIMENSIONS ARE NOT PROVIDED ON FLOOR PLANS TO LOCATE DOOR OPENINGS, APPLY THE FOLLOWING RULES IN ORDER TO DETERMINE THE LOCATION OF DOOR OPENINGS.
   A. DOOR OPENINGS MAY BE DIMENSIONED ON DRAWINGS OTHER THAN THE FLOOR PLANS. REFER TO THE SECTIONS, ELEVATIONS, DETAILS AND DOOR SCHEDULE NOTES FOR ADDITIONAL DIMENSIONAL INFORMATION.
   B. WHERE THE HINGE-SIDE OF A DOOR IS SHOWN ADJACENT TO A WALL - OR WALLS - PERPENDICULAR TO THE WALL IN WHICH THE DOOR OPENING OCCURS.

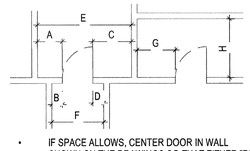
   AT DOORS OCCURRING IN METAL FRAMED GYPSUM BOARD PARTITIONS, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 4 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



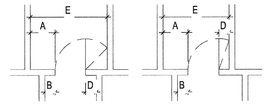
   AT DOORS OCCURRING IN WALLS OF CMU CONSTRUCTION, LOCATE THE HINGE-SIDE OF THE DOOR FINISHED OPENING 10 INCHES FROM THE FACE (EXCLUSIVE OF APPLIED FINISHES) OF THE CLOSEST PERPENDICULAR WALL OR PARTITION ASSEMBLY.



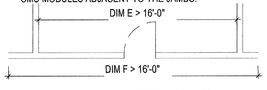
4. NOTE NO. 4 CONTINUED
   C. WHERE DOOR OCCURS NOT ADJACENT TO A PERPENDICULAR WALL AND EITHER "DIM E" OR "DIM F" IS 16'-0" OR LESS, LOCATE DOOR UTILIZING THE FOLLOWING MINIMUM DIMENSIONS:
      - DIMENSION A = 18 INCHES MIN.
      - DIMENSION B = 12 INCHES MIN.
      - DIMENSION C = DOOR WIDTH + 2 INCHES MINIMUM.
      - DIMENSION D = 4 INCHES MIN AT METAL FRAMED GYPSUM BOARD PARTITIONS OR - EVEN MULTIPLE OF 1/2 CMU MODULE PLUS 2 INCHES AT CMU WALLS.
      - DIMENSIONS E AND F = AS SHOWN ON PLANS
      - DIMENSION G = 36 INCHES MIN.
      - DIMENSION H = 60 INCHES MIN.
      - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".



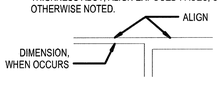
      - IF SPACE ALLOWS, CENTER DOOR IN WALL SHOWN ON THE DRAWINGS SO THAT EITHER "DIM A" EQUALS "DIM C" OR "DIM B" EQUALS "DIM D".
4. NOTE NO. 4 CONTINUED
   D. IF "DIM E" IN DIAGRAMS BELOW IS LESS THAN THE SUM OF 2 TIMES THE DOOR WIDTH PLUS 20 INCHES, LOCATE DOOR SO THAT MINIMUMS STATED BY NOTE NO. 4C ABOVE FOR "DIM A", "DIM B," AND "DIM D" ARE MET - MAXIMIZING "DIM A" AND MINIMIZING "DIM D" TO THE EXTENT POSSIBLE.



   E. WHERE DOOR IS SHOWN LOCATED IN A LARGE EXPANSE OF OPEN WALL ("DIM E" AND "DIM F" IN DIAGRAM BELOW BOTH EXCEED 16'-0"), PLACE DOOR AT APPROXIMATE LOCATION SHOWN ON THE PLANS. WHERE DOOR OCCURS IN CMU WALL, PLACE DOOR AT APPROXIMATE LOCATION SHOWN WHILE MINIMIZING "CUT" OR PARTIAL CMU MODULES ADJACENT TO THE JAMBS.



5. WHERE WALLS AND/OR PARTITIONS OF UNEQUAL THICKNESS ABUT, ALIGN EXPOSED FACES, UNLESS OTHERWISE NOTED.



NON-SPRINKLERED

CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

Seals and Signatures

LICENSED ARCHITECT ROBERT B. NICHOLS C-29164 REN. 03/31/2017 STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

LEO A DALY

PLANNING ARCHITECTURE ENGINEERING INTERIORS

550 South Hope Street, 27th Floor
Los Angeles, California 90071, USA
213-629-0100 F213-629-0070

EST. 1915

Drawing Title: **ARCH. INFO., SYMBOLS, LEGENDS, GEN. NOTES**

Approved: Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032

Building Number: 1001

Drawing Number: 1

Dwg. of

Office of Construction and Facilities Management

Department of Veterans Affairs

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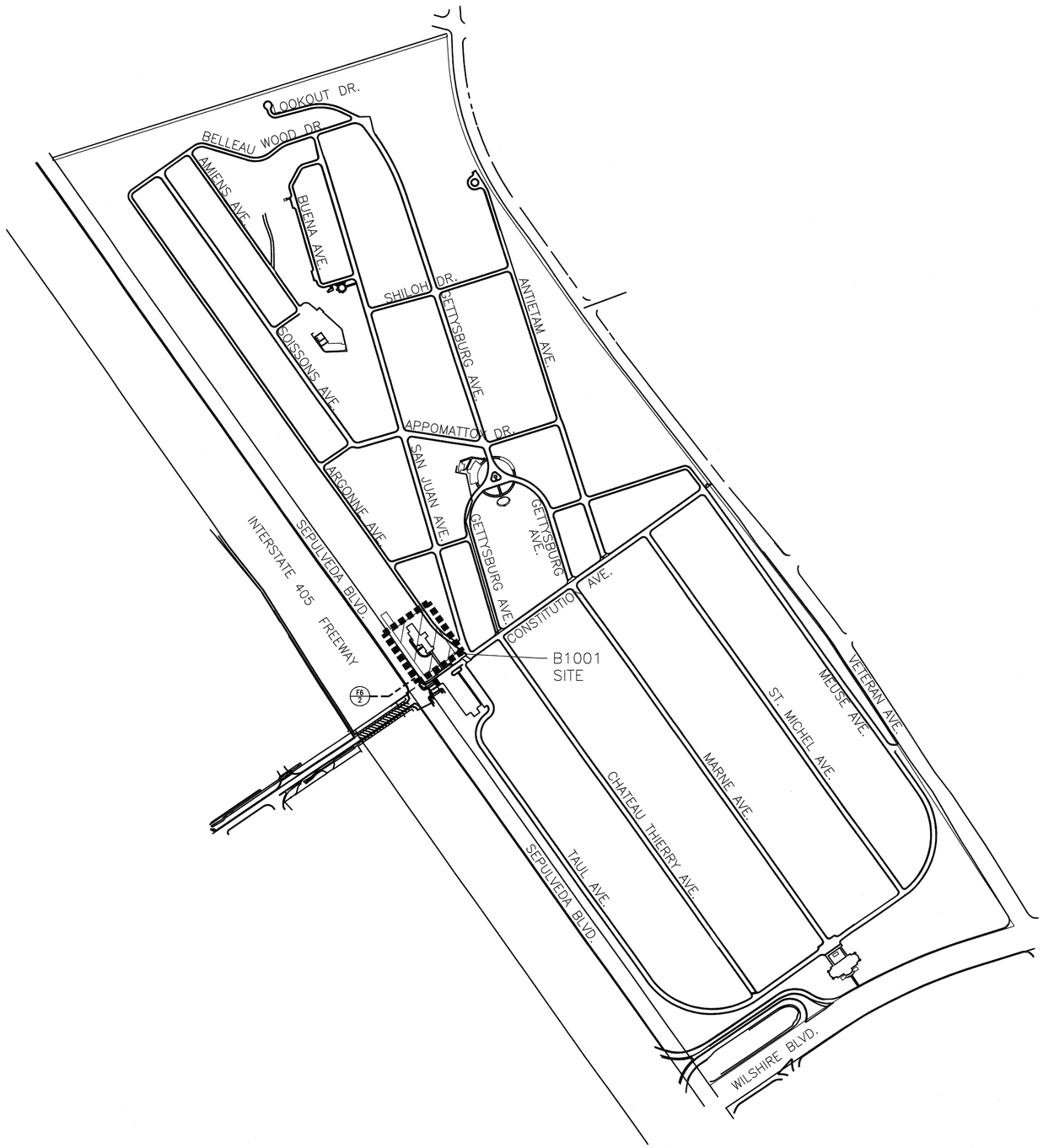
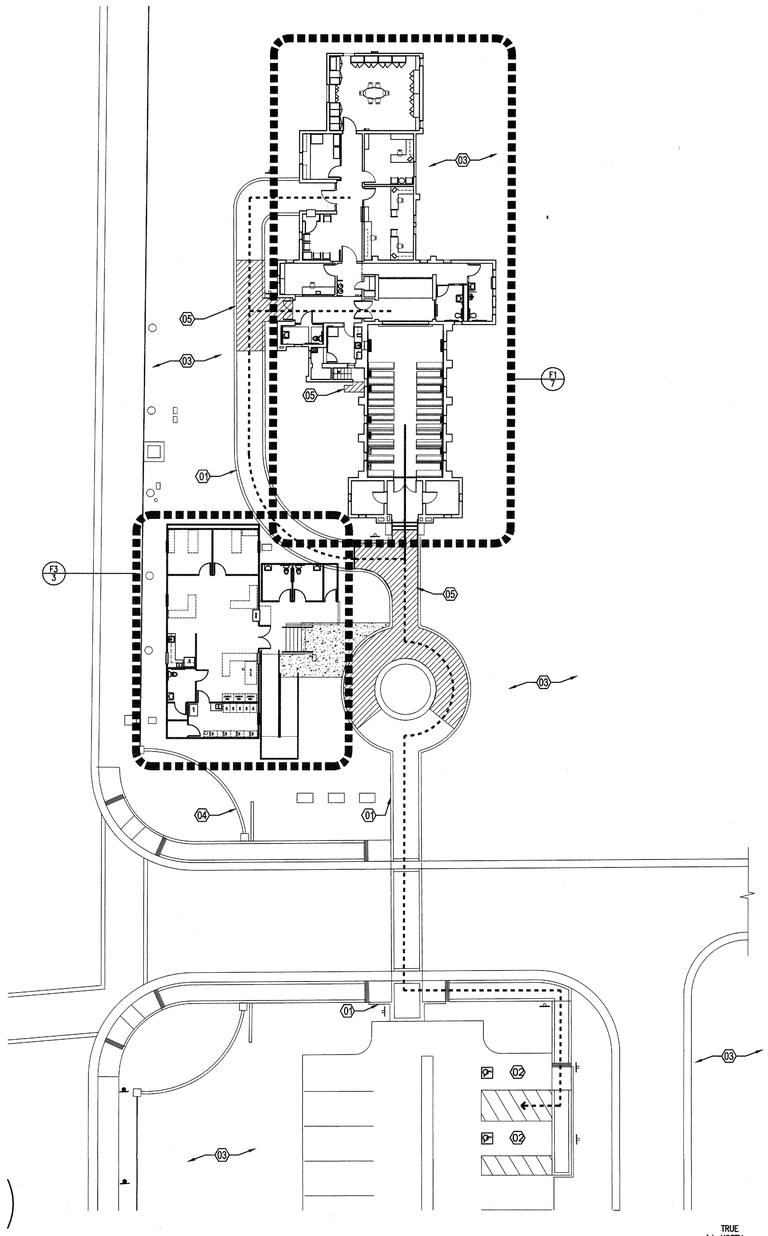
VA FORM 08-6231



F1 PLAN - CAMPUS ARCHITECTURAL
SCALE: NTS



F6 PLAN - SITE ARCHITECTURAL
SCALE: 1/16" = 1'-0"

SHEET NOTES

1. ALL DIMENSIONS ARE FROM FACE OF WALL FINISH UNLESS OTHERWISE NOTED.
2. REFER TO X5 AND X6 FOR ACCESSIBILITY NOTES AND DIAGRAMS.
3. SEE SHEET X3 AND 1 FOR ARCHITECTURAL SYMBOLS AND NOTES

KEYNOTES

01 EXISTING PAVEMENT
02 EXISTING ADA PARKING SPACES
03 EXISTING LANDSCAPE AREA
04 EXISTING MONUMENT SIGN
05 DEMO AND REPLACE PORTION OF BRICK WALKWAY, SEE CIVIL

LEGEND

ACCESSIBLE PATH OF TRAVEL
NON-ACCESSIBLE PATH OF TRAVEL

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

Seals and Signatures

LICENSED ARCHITECT ROBERT B. NICHOLS C-29164 REN. 03/31/2017 STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:
LEO A DALY
PLANNING ARCHITECTURE ENGINEERING INTERIORS
550 South Hope Street, 27th Floor
Los Angeles, California 90071, USA
213-629-0100 F213-629-0070
EST. 1915

Drawing Title: **PLAN - SITE ARCHITECTURAL**

Approved Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A

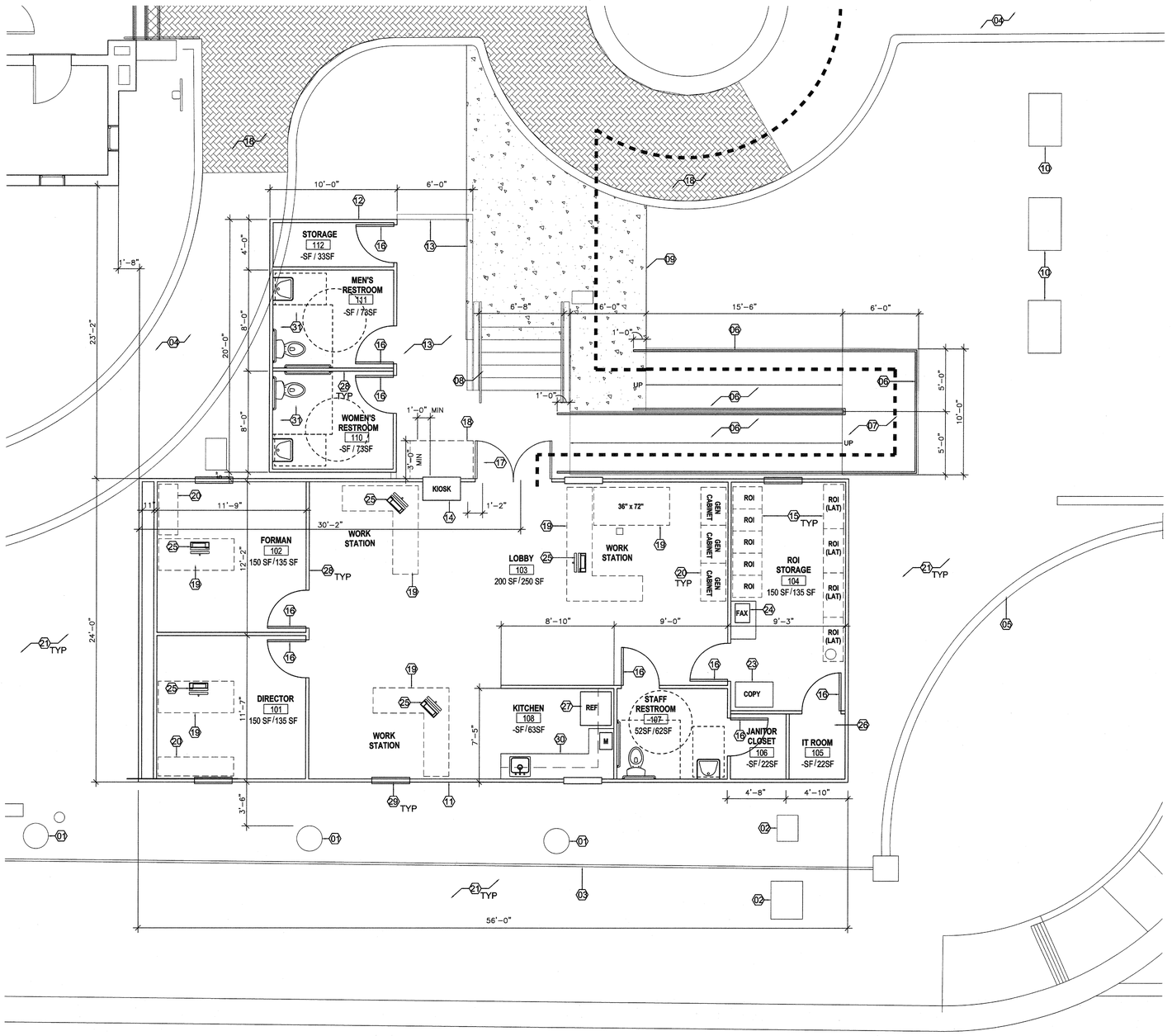
Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032
Building Number: 1001
Drawing Number: 2
Dwg. of

Office of Construction and Facilities Management
Department of Veterans Affairs

VA FORM 08-6231



F3 **PLAN - TEMPORARY TRAILER**
SCALE: 1/4" = 1'-0"

TRUE NORTH

SHEET NOTES

1. ALL DIMENSIONS ARE FROM FACE OF WALL FINISH UNLESS OTHERWISE NOTED.
2. REFER TO X5 AND X6 FOR ACCESSIBILITY NOTES AND DIAGRAMS.
3. SEE SHEETS X3 AND 1 FOR ARCHITECTURAL SYMBOLS AND NOTES
4. ALL TEMPORARY TRAILERS SHALL BE PERMITTED WITH APPROPRIATE AGENCY HAVING JURISDICTION INCLUDING FOUNDATION, SEISMIC BRACING, INSTALLATION AND UTILITY CONNECTION AS PART OF BASE BID.

   ALL TEMPORARY TRAILERS, RAMPS AND RELATED WALKWAYS WILL BE LEASED AS PART OF THE TRAILER SYSTEM. CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
5. RE-LANDSCAPE AREAS WHERE TEMPORARY TRAILERS WERE INSTALLED DURING CONSTRUCTION
6. ALL FURNITURE WITHIN TEMPORARY TRAILERS SHALL BE RELOCATED FROM EXISTING ADMINISTRATION BUILDING. FURNITURE TO BE RELOCATED BY VA

KEYNOTES

01 TRIM AND PRUNE EXISTING TREES AS REQUIRED TO INSTALL TEMPORARY TRAILERS

02 EXISTING ELECTRICAL EQUIPMENT TO REMAIN, PROTECT IN PLACE

03 EXISTING WROUGHT IRON FENCE, PROTECT IN PLACE

04 EXISTING BRICK WALKWAY TO REMAIN, PROTECT IN PLACE

05 EXISTING LANDSCAPE WALL TO REMAIN, PROTECT IN PLACE

06 ACCESSIBLE RAMP, 1:12 SLOPE MAX., SEE C1/X5. PROVIDE WITH ACCESSIBLE HANDRAIL AND GUARDRAIL

07 LEVEL RAMP LANDING, 2% SLOPE MAX.

08 TEMPORARY STAIR, SEE D1, D2, AND E1/X5

09 TEMPORARY CONCRETE SLAB ON GRADE, 2% SLOPE MAX, PROVIDE ½" MAX. LEDGE AT ATTACHMENT TO EXISTING BRICK WALKWAY, SEE D4/X5

10 EXISTING CONCRETE MONUMENT SIGN, PROTECT IN PLACE

11 TEMPORARY MODULAR STAFF TRAILER 56'-0" L X 24'-0" W COORDINATE FINAL LOCATION PRIOR TO INSTALLATION. SEE SHEET NOTE NO. 4 ABOVE

12 TEMPORARY MODULAR TRAILER 20'-0" L X 10'-0" W FOR PUBLIC RESTROOM. COORDINATE FINAL LOCATION PRIOR TO INSTALLATION. SEE SHEET NOTE NO. 4 ABOVE

13 MODULAR DECK WITH 42" HIGH RAILING. INSTALL AS PART OF MODULAR TRAILER SYSTEM

14 TEMPORARY RELOCATE EXISTING GRAVE LOCATOR KIOSK. FRAME AND PROVIDE OPENING ALONG TRAILER WALL AS REQUIRED. PROVIDE POWER, DATA AND UTILITY CONNECTION AS REQUIRED. RELOCATE KIOSK AT CONCLUSION OF CHAPEL REMODEL BACK TO CHAPEL ORIGINAL LOCATION

15 TEMPORARY RELOCATED RECORD OF INTERNMENT (ROI) CABINETS

16 3'-0" X 7'-0" DOOR

17 6'-0" X 7'-0" DOOR

18 HEAVY DUTY FABRIC AWNING ABOVE GRAVE LOCATOR KIOSK. PROVIDE WITH SIGNAGE ON VERTICAL FACE OF AWNING TO READ "GRAVESITE LOCATOR" MIN. 12" HIGH

19 OFFICE DESKS RELOCATED FROM CHAPEL BUILDING

20 FILE / STORAGE CABINETS. TEMPORARILY RELOCATE FROM CHAPEL BUILDING

21 CAP / REDIRECT (E) IRRIGATION SYSTEM BELOW AND AROUND TRAILER AS REQUIRED PRIOR TO INSTALLATION OF TRAILER

22 AREA OF BRICK WALKWAY TO BE REPLACED. SEE CIVIL DRAWINGS

23 RELOCATE EXISTING COPIER FROM CHAPEL BUILDING. CONNECT TO POWER AND DATA AS REQUIRED

24 RELOCATE EXISTING FAX MACHINE FROM CHAPEL BUILDING. CONNECT TO POWER AND DATA AS REQUIRED

25 RELOCATE EXISTING CPU, MONITOR AND KEYBOARD FROM CHAPEL BUILDING. CONNECT TO POWER AND DATA AS REQUIRED

26 RELOCATE EXISTING I.T. SERVER RACK AND SERVER TO CHAPEL BUILDING TO SUPPORT WORKSTATIONS. CONNECT TO POWER AND DATA RELOCATED WORKSTATIONS, COPIER AND FAX AS REQUIRED TO MAKE OPERATIONAL.

27 RELOCATE REFRIGERATOR FROM CHAPEL BUILDING

28 PARTITION WALL, TYP

29 WINDOW, TYP

30 NEW LOWER AND UPPER KITCHEN CASEWORK. PROVIDE SINK WITH GARBAGE DISPOSAL. PROVIDE MICROWAVE

31 NEW TOILET TO INCLUDE ACCESSIBLE WATER CLOSET AND WALL MOUNTED SINK, GRAB BARS, TOILET SEAT PAPER DISPENSER, TOILET PAPER DISPENSER, GRAB BARS, MIRROR AND SANITARY NAPKIN DISPOSAL AT WOMEN'S TOILET

LEGEND

ACCESSIBLE PATH OF TRAVEL

NON-ACCESSIBLE PATH OF TRAVEL

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

Seals and Signatures

LICENSED ARCHITECT ROBERT P. NICHOLS C-29164 REN. 03/31/2017 STATE OF CALIFORNIA

ARCHITECT/ENGINEERS:

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PLANNING ARCHITECTURE ENGINEERING INTERIORS
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213-629-0100 F213-629-0070
EST. 1915

Drawing Title: **PLAN - TEMPORARY TRAILER**

Approved Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032

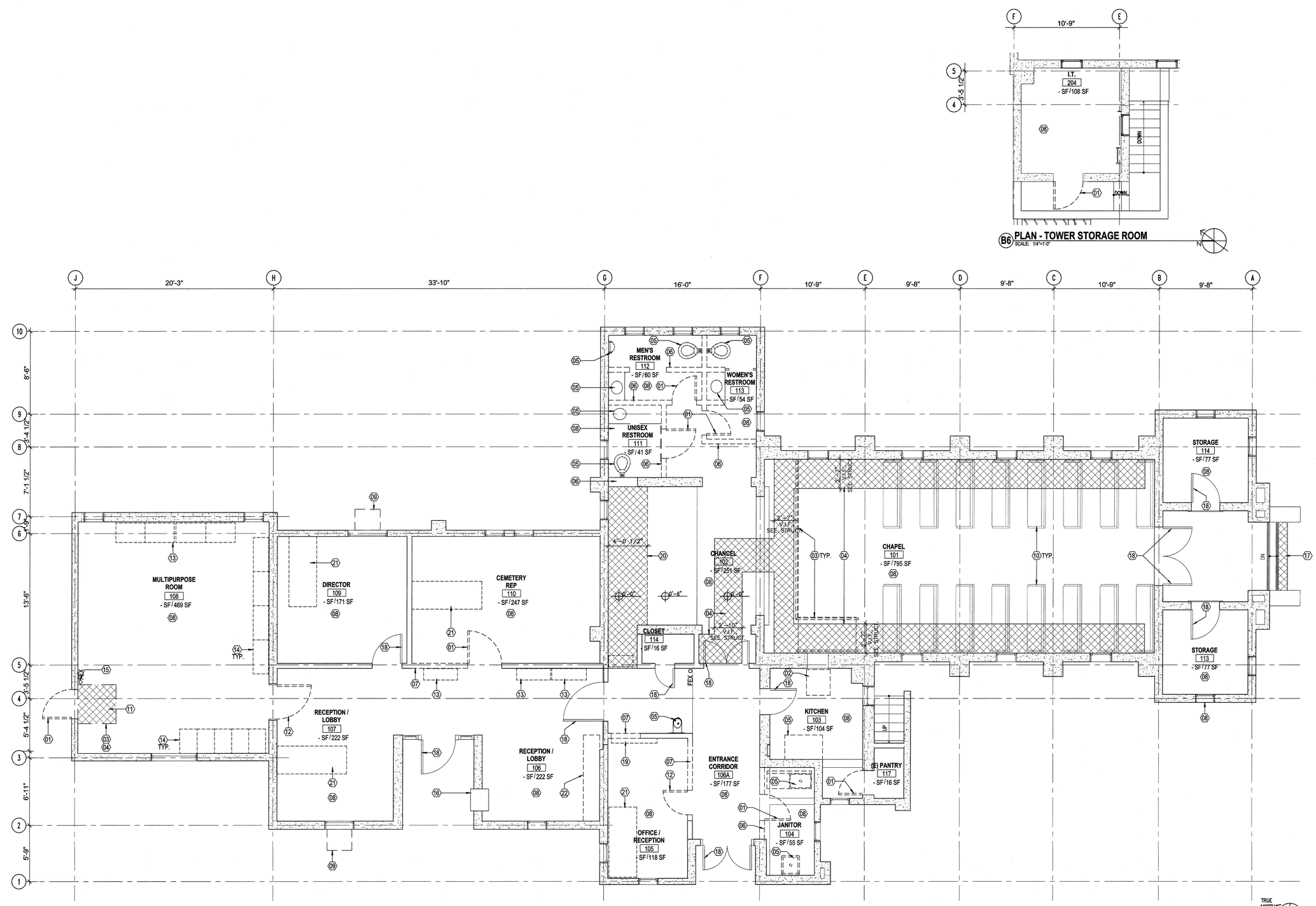
Building Number: 1001

Drawing Number: 3 of

Office of Construction and Facilities Management

Department of Veterans Affairs

VA FORM 08-6231



F1 **PLAN - DEMOLITION FIRST FLOOR**
SCALE:1/4" = 1'-0"

B6 **PLAN - TOWER STORAGE ROOM**
SCALE: 1/4"=1'-0"

SHEET NOTES

1. CONTRACTOR MUST FIELD VERIFY ALL DIMENSIONS SHOWN FOR EXISTING STRUCTURE.
2. DEMOLITION OF ALL PAINTED SURFACES (WINDOWS, DOORS, ETC) ARE TO BE ABATED FOLLOWING MILLENNIUM CONSULTING ASSOCIATES EDITED "DEPARTMENT OF VETERANS AFFAIRS MASTER SPECIFICATIONS, FACILITY CONSTRUCTION SUBGROUP, DIVISION 02– EXISTING CONDITIONS, VA 02 83 13 LEAD–BASED PAINT REMOVAL AND DISPOSAL".
3. PRIOR TO COMMENCEMENT OF DEMOLITION, ALL ASBESTOS CONTAINING MATERIALS TO BE ABATED FOLLOWING MILLENNIUM CONSULTING ASSOCIATES EDITED "DEPARTMENT OF VETERNAS AFFAIRS MASTER SPECIFICATIONS, FACILITIES CONSTRUCTION SUBGROUP, DIVISION 02 – EXISTING CONDITIONS, VA 02 83 13.19 ASBESTOS FLOOR TILE AND MASTIC ABATEMENT AND VA 02 83 13.13 GLOVEBAG ASBESTOS ABATEMENT WITH REFERENCE TO APPENDIX A OF THE SPECIFICATIONS, "ASBESTOS ABATEMENT WORK PLAN".
4. DEMOLITION OF EXISTING PARTITIONS AND FINISHES MAY UNCOVER VARIOUS THICKNESSES OF EXISTING TOPPING CONCRETE OVER THE EXISTING STRUCTURAL SLAB. PORTIONS OF EXISTING TOPPING CONCRETE THAT ARE FIRMLY ATTACHED TO EXISTING SLAB TO REMAIN, CRACKED OR DELAMINATED PORTIONS TO BE REMOVED
5. ALL STRUCTURAL MEMBERS MUST REMAIN UNLESS OTHERWISE INDICATED ON THE DRAWINGS. PROTECT IN PLACE STRUCTURAL FRAMING, COLUMNS, AND CONCRETE SHEAR WALLS DURING DEMOLITION
6. PERIMETER OF BUILDING BELOW GRADE TO BE EXCAVATED TO TOP OF FOOTING FOR INSTALLATION OF NEW BELOW GRADE WATERPROOFING
7. AT ALL AREAS OF DEMOLITION, PATCH AND REPAIR AS REQUIRED MATCHING EXISTING OR MAKING READY TO ACCEPT NEW FINISHES
8. COORDINATE REMOVAL OF ALL EXISTING EQUIPMENT WITH THE OWNER
9. SEE SPEC. SECTION 08 71 00 FOR EXISTING DOOR SCOPE OF DEMOLITION

KEYNOTES

01 REMOVE DOOR AND FRAME ASSEMBLY
02 REMOVE KITCHEN EQUIPMENT
03 REMOVE INTERIOR RAMP AND RAILINGS
04 REMOVE 6" CONCRETE SLAB
05 REMOVE PLUMBING FIXTURES (SINK, WATER CLOSET, URINAL, BATHTUB, SHOWER, MOP SINK, OR DRINKING FOUNTAIN), COUNTERTOP, TOILET PARTITIONS AND ACCESSORIES, TYPICAL.
06 REMOVE INTERIOR PARTITION WALLS INCLUDING ALL WALL FINISHES AND BASE AND FRAMING, TYPICAL
07 REMOVE PORTION OF INTERIOR PARTITION FOR NEW OPENING.
08 REMOVE FLOOR FINISHES
09 REMOVE WINDOW MOUNTED AC UNIT, SUPPORT, PIPING AND ACCESSORIES
10 REMOVE EXISTING WOOD PEWS, STORE FOR REINSTALLATION.
11 PATCH (E) CONCRETE SLAB TO MATCH ADJACENT SLAB.
12 SALVAGE (E) DOOR AND FRAME FOR REINSTALLATION.
13 REMOVE AND RELOCATE EXISTING METAL STORAGE CABINETS TO TEMPORARY TRAILER
14 REMOVE AND RELOCATE EXISTING R.O.I. METAL STORAGE CABINETS IN R.O.I. STORAGE AREA AT TEMPORARY TRAILER.
15 REMOVE AND RELOCATE EXISTING FIRE EXTINGUISHER.
16 TEMPORARILY RELOCATE EXISTING GRAVE LOCATOR KIOSK TO TEMPORARY TRAILER. TEMPORARILY PATCH / BOARD CAP EXISTING WALL AT KIOSK OPENING.
17 DEMOLISH EXISTING LAST STEP, SEE CIVIL.
18 EXISTING DOORS TO REMAIN, PROTECT IN PLACE.
19 REMOVE / DEMOLISH EXISTING TELEPHONE BOARD.
20 REMOVE EXISTING WOOD RAISED FLOOR ASSEMBLY TO EXPOSED EXISTING CONCRETE SLAB BELOW.
21 REMOVE AND RELOCATE EXISTING DESK/ OFFICE FURNITURE TO TEMPORARY TRAILER
22 REMOVE EXISTING CASEWORK

LEGEND

EXISTING CONSTRUCTION TO BE DEMOLISHED
EXISTING CONSTRUCTION TO REMAIN IN PLACE
EXISTING CONCRETE FLOOR SLAB TO BE DEMOLISHED

TRUE NORTH

NON-SPRINKLERED
CD2 SUBMISSION - ISSUED FOR CONSTRUCTION

No.	Description	Date

CONSULTANTS:

Seals and Signatures

LICENSED ARCHITECT ROBERT B. NICHOLS C-29164 REN. 03/31/2017 STATE OF CALIFORNIA

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Drawing Title: **PLAN - DEMOLITION FIRST FLOOR PLAN**

Approved: Project Director

Project Title: VA Los Angeles National Cemetery, Phase 1A

Location: Los Angeles National Cemetery, 950 South Sepulveda Boulevard, Los Angeles, California, 90049

Date: 06-10-2016 | Checked | Drawn

VA Project Number: 898CM2032
Building Number: 1001
Drawing Number: 4
Dwg. of

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